
Digital Still Camera / Instruction Manual

GB

數位照相機 / 使用說明書

CT

Cyber-shot

Learning more about the camera (“Help Guide”)



“Help Guide” is an on-line manual. You can read the “Help Guide” on your computer or smartphone.

Refer to it for in-depth instructions on the many functions of the camera.

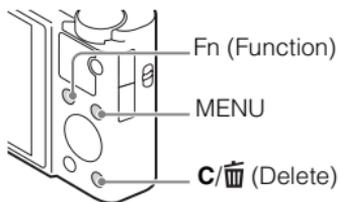
URL:

http://rd1.sony.net/help/dsc/1410/h_zz/



Viewing the Guide

This camera is equipped with a built-in instruction guide.



In-Camera Guide

The camera displays explanations for MENU/Fn (Function) items and the setting values.

- ① Press the MENU button or the Fn (Function) button.
- ② Select the desired item, then press the **C/** (Delete) button.

Owner's Record

The model and serial numbers are located on the bottom. Record the serial number in the space provided below. Refer to these numbers whenever you call your Sony dealer regarding this product.

Model No. WW808161 (DSC-RX100M3)

Serial No. _____

Model No. AC-UB10C/AC-UB10D

Serial No. _____

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WARNING

To reduce fire or shock hazard, do not expose the unit to rain or moisture.

IMPORTANT SAFETY INSTRUCTIONS -SAVE THESE INSTRUCTIONS DANGER TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, CAREFULLY FOLLOW THESE INSTRUCTIONS

If the shape of the plug does not fit the power outlet, use an attachment plug adaptor of the proper configuration for the power outlet.

CAUTION

Battery pack

If the battery pack is mishandled, the battery pack can burst, cause a fire or even chemical burns. Observe the following cautions.

- Do not disassemble.
- Do not crush and do not expose the battery pack to any shock or force such as hammering, dropping or stepping on it.
- Do not short circuit and do not allow metal objects to come into contact with the battery terminals.
- Do not expose to high temperature above 60°C (140°F) such as in direct sunlight or in a car parked in the sun.
- Do not incinerate or dispose of in fire.
- Do not handle damaged or leaking lithium ion batteries.

- Be sure to charge the battery pack using a genuine Sony battery charger or a device that can charge the battery pack.
- Keep the battery pack out of the reach of small children.
- Keep the battery pack dry.
- Replace only with the same or equivalent type recommended by Sony.
- Dispose of used battery packs promptly as described in the instructions.

AC Adaptor

Use the nearby wall outlet (wall socket) when using the AC Adaptor. Disconnect the AC Adaptor from the wall outlet (wall socket) immediately if any malfunction occurs while using the apparatus.

The power cord (mains lead), if supplied, is designed specifically for use with this camera only, and should not be used with other electrical equipment.

For Customers in the U.S.A. and Canada

RECYCLING LITHIUM-ION BATTERIES

Lithium-Ion batteries are recyclable.

You can help preserve our environment by returning your used rechargeable batteries to the collection and recycling location nearest you.



For more information regarding recycling of rechargeable batteries, call toll free

1-800-822-8837, or visit <http://www.call2recycle.org/>

Caution: Do not handle damaged or leaking Lithium-Ion batteries.

Battery pack

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

CAN ICES-3 B/NMB-3 B

This equipment complies with FCC/IC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines and RSS-102 of the IC radio frequency (RF) Exposure rules. This equipment has very low levels of RF energy that are deemed to comply without testing of specific absorption ratio (SAR).

For Customers in the U.S.A.

If you have any questions about this product, you may call:

Sony Customer Information Center
1-800-222-SONY (7669)

The number below is for the FCC related matters only.

Regulatory Information

Declaration of Conformity

Trade Name: SONY
Model No.: WW808161
Responsible Party: Sony Electronics Inc.
Address: 16530 Via Esprillo,
San Diego, CA 92127 U.S.A.
Telephone No.: 858-942-2230

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment must not be co-located or operated in conjunction with any other antenna or transmitter.

CAUTION

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

Note:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The supplied interface cable must be used with the equipment in order to comply with the limits for a digital device pursuant to Subpart B of Part 15 of FCC Rules.

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For Customers in Canada

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

For Customers in Europe

| Notice for the customers in the countries applying EU Directives

Manufacturer: Sony Corporation, 1-7-1 Konan Minato-ku Tokyo, 108-0075 Japan
For EU product compliance: Sony Deutschland GmbH, Hedelfinger Strasse 61, 70327 Stuttgart, Germany



Hereby, Sony Corporation, declares that this equipment is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. For details, please access the following URL:

<http://www.compliance.sony.de/>

| Notice

If static electricity or electromagnetism causes data transfer to discontinue midway (fail), restart the application or disconnect and connect the communication cable (USB, etc.) again.

This product has been tested and found compliant with the limits set out in the EMC regulation for using connection cables shorter than 3 meters (9.8 feet).

The electromagnetic fields at the specific frequencies may influence the picture and sound of this unit.

Disposal of waste batteries and electrical and electronic equipment (applicable in the European Union and other European countries with separate collection systems)



This symbol on the product, the battery or on the packaging indicates that the product and the battery shall not be treated as household waste. On certain batteries this symbol might be used in combination with a chemical symbol. The chemical symbols for mercury (Hg) or lead (Pb) are added if the battery contains more than 0.0005% mercury or 0.004% lead. By ensuring these products and batteries are disposed of

correctly, you will help prevent potentially negative consequences for the environment and human health which could otherwise be caused by inappropriate waste handling. The recycling of the materials will help to conserve natural resources.

In case of products that for safety, performance or data integrity reasons require a permanent connection with an incorporated battery, this battery should be replaced by qualified service staff only. To ensure that the battery and the electrical and electronic equipment will be treated properly, hand over these products at end-of-life to the applicable collection point for the recycling of electrical and electronic equipment. For all other batteries, please view the section on how to remove the battery from the product safely. Hand the battery over to the applicable collection point for the recycling of waste batteries. For more detailed information about recycling of this product or battery, please contact your local Civic Office, your household waste disposal service or the shop where you purchased the product or battery.

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For Customers in Singapore

Complies with
IDA Standards
DB00353

For customers who purchased their camera from a store in Japan that caters to tourists

Note

Some certification marks for standards supported by the camera can be confirmed on the screen of the camera.

Select MENU →  (Setup) 6 → [Certification Logo].

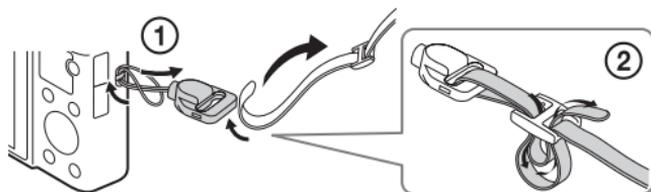
If display is not possible due to problems such as camera failure, contact your Sony dealer or local authorized Sony service facility.

Checking the supplied items

The number in parentheses indicates the number of pieces.

- Camera (1)
- Rechargeable Battery Pack NP-BX1 (1)
- Micro USB Cable (1)
- AC Adaptor AC-UB10C/UB10D (1)
- Power Cord (mains lead) (not supplied in the USA and Canada) (1)
- Wrist Strap (1)
- Strap adapter (2)

(Strap adapters are used to attach the shoulder strap (sold separately), as illustrated.)

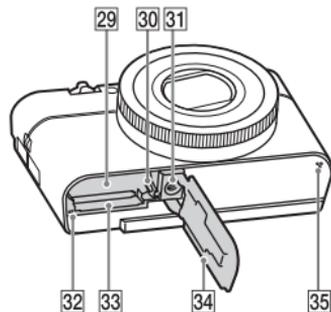
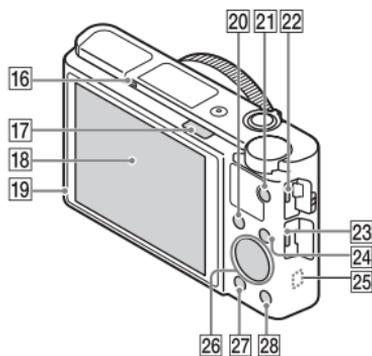
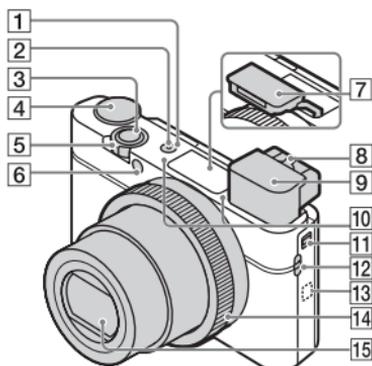


- Instruction Manual (this manual) (1)
- Wi-Fi Connection/One-touch (NFC) Guide (1)

This guide explains the functions that require a Wi-Fi connection.

For further details on Wi-Fi functions/One-touch (NFC) functions, refer to the “Wi-Fi Connection/One-touch (NFC) Guide” (supplied) or the “Help Guide” (page 2).

Identifying parts



- 1** ON/OFF (Power) switch
- 2** Power/Charge lamp
- 3** Shutter button

- 4** Mode dial
 - i** (Intelligent Auto)/
 - i+** (Superior Auto)/
 - P** (Program Auto)/
 - A** (Aperture Priority)/
 - S** (Shutter Priority)/
 - M** (Manual Exposure)/
 - MR** (Memory recall)/
 - Movie** (Movie)/**Sweep** (Sweep Panorama)/**SCN** (Scene Selection)

- 5** For shooting: W/T (zoom) lever
For viewing: **Index** (Index) lever/
Playback zoom lever

- 6** Self-timer lamp/AF illuminator

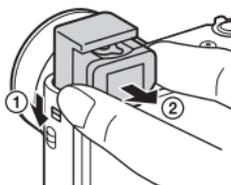
- 7** Flash

- Do not cover the flash with your finger.
- When using the flash, slide the **Flash pop-up** switch. If not using the flash, press it down manually.
- When not using the flash, press it back into the camera body.

- 8** Diopter-adjustment lever

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9 Viewfinder



- When using the viewfinder, slide down the Viewfinder pop-up switch, then pull the eyepiece out from the viewfinder until it clicks.
- When you look into the viewfinder, the viewfinder mode is activated, and when you take your face away from the viewfinder, the viewing mode returns to the monitor mode.

10 Microphone

11 Viewfinder pop-up switch

12 Hook for strap

13 (N Mark)

- Touch the mark when you connect the camera to a smartphone equipped with the NFC function.
- NFC (Near Field Communication) is an international standard of the short-range wireless communication technology.

14 Control ring

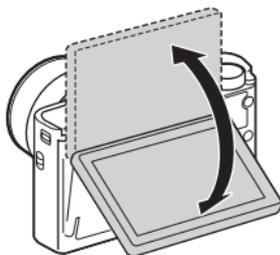
15 Lens

16 Eye sensor

17 (Flash pop-up) switch

18 Monitor

- You can adjust the monitor to an easily viewable angle and shoot from any position.



19 Light sensor

20 For shooting: Fn (Function) button

For viewing:  (Send to Smartphone) button

21 MOVIE (Movie) button

22 Multi/Micro USB Terminal

- Supports Micro USB compatible device.

23 HDMI micro jack

24 MENU button

25 Wi-Fi sensor (built-in)

26 Control wheel

27 (Playback) button

28 (Custom/Delete) button

29 Battery insertion slot

30 Battery eject lever

31 Tripod socket hole

- Use a tripod with a screw less than 5.5 mm (7/32 inches) long. Otherwise, you cannot firmly secure the camera, and damage to the camera may occur.

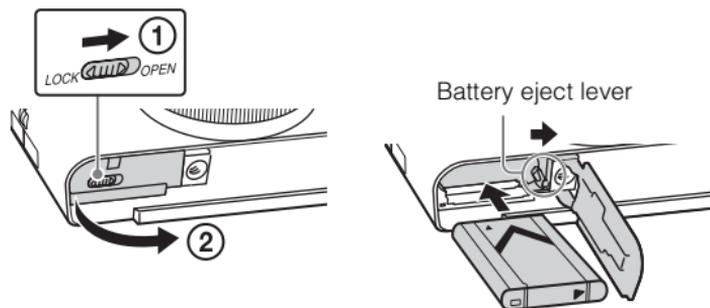
32 Access lamp

33 Memory card slot

34 Battery/Memory card cover

35 Speaker

Inserting the battery pack



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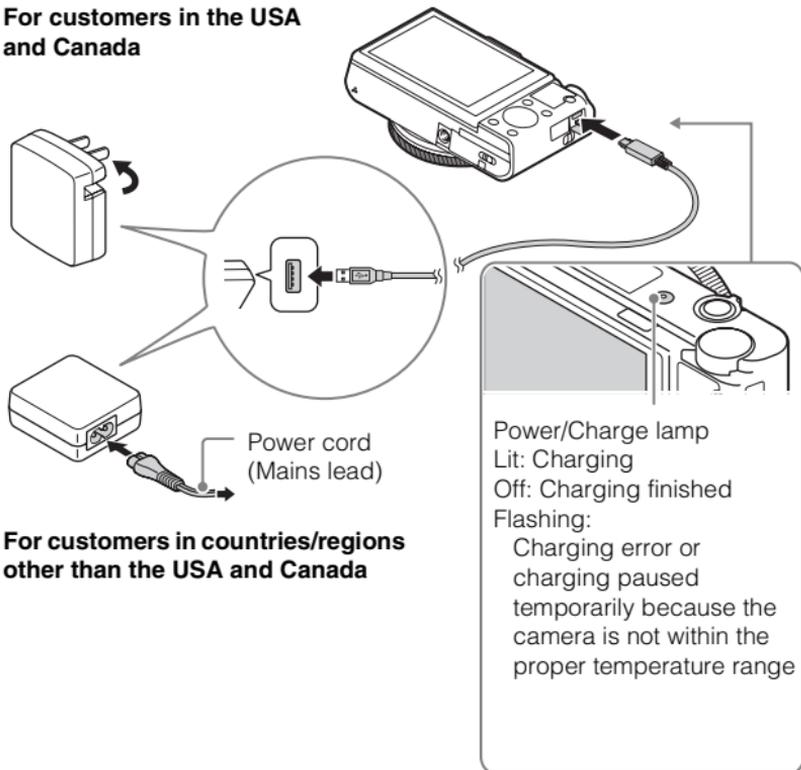
1 Open the cover.

2 Insert the battery pack.

- While pressing the battery eject lever, insert the battery pack as illustrated. Make sure that the battery eject lever locks after insertion.
- Closing the cover with the battery inserted incorrectly may damage the camera.

Charging the battery pack

For customers in the USA
and Canada



For customers in countries/regions
other than the USA and Canada

- 1 Connect the camera to the AC Adaptor (supplied), using the micro USB cable (supplied).
- 2 Connect the AC Adaptor to the wall outlet (wall socket).
The power/charge lamp lights orange, and charging starts.
 - Turn off the camera while charging the battery.
 - You can charge the battery pack even when it is partially charged.
 - When the power/charge lamp flashes and charging is not finished, remove and re-insert the battery pack.

Notes

- If the power/charge lamp on the camera flashes when the AC Adaptor is connected to the wall outlet (wall socket), this indicates that charging is temporarily stopped because the temperature is outside the recommended range. When the temperature gets back within the appropriate range, the charging resumes. We recommend charging the battery pack in an ambient temperature of between 10°C to 30°C (50°F to 86°F).
- The battery pack may not be effectively charged if the terminal section of the battery is dirty. In this case, wipe any dust off lightly using a soft cloth or a cotton swab to clean the terminal section of the battery.
- Connect the AC Adaptor (supplied) to the nearest wall outlet (wall socket). If malfunctions occur while using the AC Adaptor, disconnect the plug from the wall outlet (wall socket) immediately to disconnect from the power source.
- When charging is finished, disconnect the AC Adaptor from the wall outlet (wall socket).
- Be sure to use only genuine Sony brand battery packs, micro USB cable (supplied) and AC Adaptor (supplied).
- The AC Adaptor AC-UD11 (sold separately) may not be available in some countries/regions.

■ Charging time (Full charge)

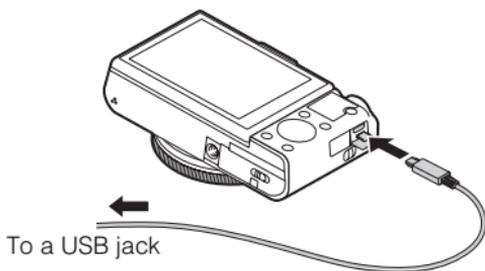
The charging time is approximately 230 min. using the AC Adaptor (supplied).

Notes

- The above charging time applies when charging a fully depleted battery pack at a temperature of 25°C (77°F). Charging may take longer depending on conditions of use and circumstances.

■ Charging by connecting to a computer

The battery pack can be charged by connecting the camera to a computer using a micro USB cable. Connect the camera to the computer with the camera turned off.



- If you connect the camera to a computer when power is turned on, the camera will be powered by the computer, which allows you to import images to a computer without worrying about the battery running out.

Notes

- Note the following points when charging via a computer:
 - If the camera is connected to a laptop computer that is not connected to a power source, the laptop battery level decreases. Do not charge for an extended period of time.
 - Do not turn on/off or restart the computer, or wake the computer to resume from sleep mode when a USB connection has been established between the computer and the camera. That may cause the camera to malfunction. Before turning on/off, or restarting the computer or waking the computer from sleep mode, disconnect the camera and the computer.
 - No guarantees are made for charging using a custom-built computer or a modified computer.

Battery life and number of images that can be recorded and played back

		Battery life	Number of images
Shooting (still images)	Screen	Approx. 160 min.	Approx. 320 images
	Viewfinder	Approx. 115 min.	Approx. 230 images
Typical movie shooting	Screen	Approx. 50 min.	—
	Viewfinder	Approx. 50 min.	—
Continuous movie shooting	Screen	Approx. 85 min.	—
	Viewfinder	Approx. 90 min.	—
Viewing (still images)		Approx. 215 min.	Approx. 4300 images

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Notes

- The above number of images applies when the battery pack is fully charged. The number of images may decrease depending on the conditions of use.
- The number of images that can be recorded is for shooting under the following conditions:
 - Using Sony Memory Stick PRO Duo™ (Mark2) media (sold separately)
 - The battery pack is used at an ambient temperature of 25°C (77°F).
 - [Display Quality] is set to [Standard]
- The number for “Shooting (still images)” is based on the CIPA standard, and is for shooting under the following conditions:
(CIPA: Camera & Imaging Products Association)
 - DISP is set to [Display All Info.].
 - Shooting once every 30 seconds.
 - The zoom is switched alternately between the W and T ends.
 - The flash strobes once every two times.
 - The power turns on and off once every ten times.
- The numbers of minutes for movie shooting are based on the CIPA standard, and are for shooting under the following conditions:
 - [Record Setting]: 60i 17M(FH)/50i 17M(FH)
 - Typical movie shooting: Battery life based on repeatedly starting/stopping shooting, zooming, turning on/off, etc.
 - Continuous movie shooting: Battery life based on non-stop shooting until the limit (29 minutes) has been reached, and then continued by pressing the MOVIE button again. Other functions, such as zooming, are not operated.

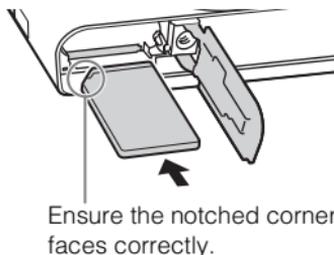
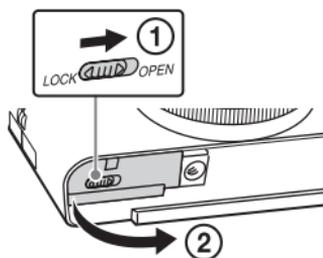
■ Supplying power

You can use the AC Adaptor AC-UD10 (sold separately) or AC-UD11 (sold separately) for shooting and playback to supply power when shooting or playing back images.

Notes

- You cannot shoot or play back images while the supplied AC Adaptor is connected to the camera.

Inserting a memory card (sold separately)



1 Open the cover.

2 Insert the memory card (sold separately).

- With the notched corner facing as illustrated, insert the memory card until it clicks into place.

3 Close the cover.

Memory cards that can be used

	Memory card	For still images	For movies
A	Memory Stick XC-HG Duo™	✓	✓
	Memory Stick PRO Duo	✓	✓ (Mark2 only)
	Memory Stick PRO-HG Duo™	✓	✓
B	Memory Stick Micro™ (M2)	✓	✓ (Mark2 only)
C	SD memory card	✓	✓ (Class 4 or faster)
	SDHC memory card	✓	✓ (Class 4 or faster)
	SDXC memory card	✓	✓ (Class 4 or faster)
D	microSD memory card	✓	✓ (Class 4 or faster)
	microSDHC memory card	✓	✓ (Class 4 or faster)
	microSDXC memory card	✓	✓ (Class 4 or faster)

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- In this manual, the products in the table are collectively referred to as follows:

A: Memory Stick PRO Duo media

B: Memory Stick Micro media

C: SD card

D: microSD memory card

- When recording XAVC S format movies, use the following memory cards:
 - SDXC memory card (64 GB or more and Class 10 or faster)
 - SDXC memory card (64 GB or more and UHS-I-compatible)
 - Memory Stick XC-HG Duo media
- This camera supports UHS-I-compatible SD cards.

Notes

- When using Memory Stick Micro media or microSD memory cards with this camera, make sure to use with the appropriate adaptor.

To remove the memory card/battery pack

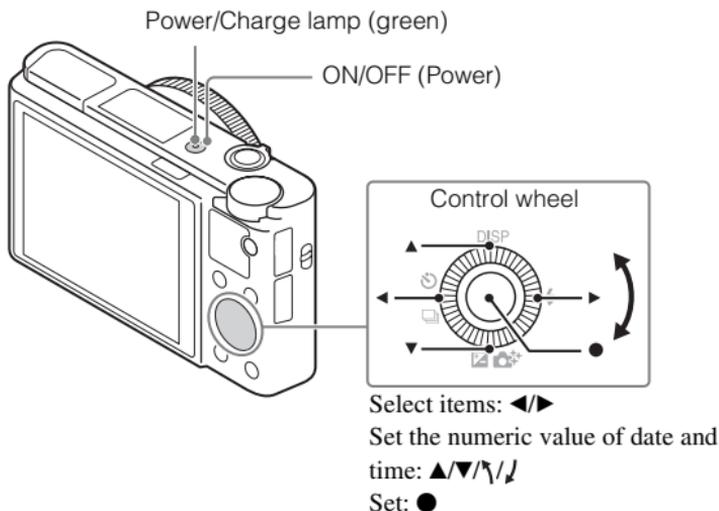
Memory card: Push the memory card in once to eject the memory card.

Battery pack: Slide the battery eject lever. Be sure not to drop the battery pack.

Notes

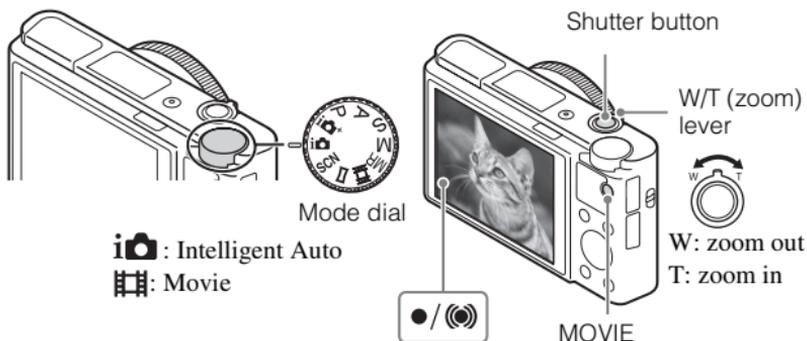
- Never remove the memory card/battery pack when the access lamp (page 10) is lit. This may cause damage to data in the memory card.

Setting the clock



- 1** Press the ON/OFF (Power) button.
Date & Time setting is displayed when you turn on the camera for the first time.
 - It may take time for the power to turn on and allow operation.
- 2** Check that [Enter] is selected on the screen, then press \bullet on the control wheel.
- 3** Select a desired geographic location by following the on-screen instructions, then press \bullet .
- 4** Set [Daylight Savings], [Date/Time] and [Date Format], then press \bullet .
 - When setting [Date/Time], midnight is 12:00 AM, and noon is 12:00 PM.
- 5** Check that [Enter] is selected, then press \bullet .

Shooting still images/movies



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Shooting still images

- 1 Press the shutter button halfway down to focus.
When the image is in focus, a beep sounds and the ● or (●) indicator lights.
- 2 Press the shutter button fully down to shoot an image.

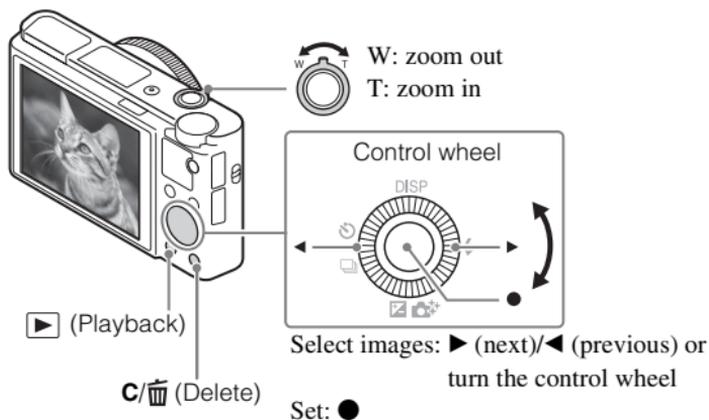
Shooting movies

- 1 Press the MOVIE (Movie) button to start recording.
 - Use the W/T (zoom) to change the zoom scale.
- 2 Press the MOVIE button again to stop recording.

Notes

- When using the zoom function while shooting a movie, the sound of the camera operating will be recorded. The sound of the MOVIE button operating may also be recorded when movie recording is finished.
- Continuous movie shooting is possible for approximately 29 minutes at one time with the camera's default settings and when the ambient temperature is approximately 25°C (77°F). When movie recording is finished, you can restart recording by pressing the MOVIE button again. Recording may stop to protect the camera depending on the ambient temperature.

Viewing images



1 Press the ► (Playback) button.

■ Selecting next/previous image

Select an image by pressing ► (next)/◄ (previous) on the control wheel or by turning the control wheel. Press ● in the center of the control wheel to view movies.

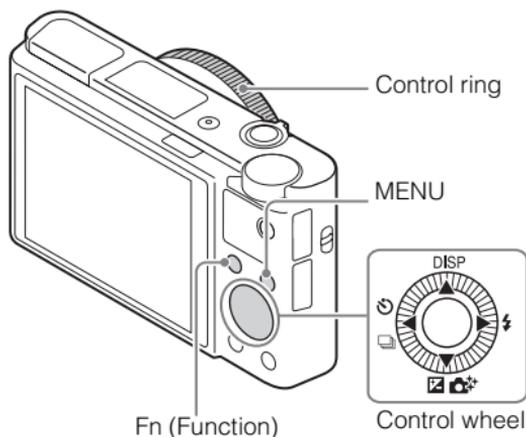
■ Deleting an image

- 1 Press the C/Trash (Delete) button.
- 2 Select [Delete] with ▲ on the control wheel, then press ●.

■ Returning to shooting images

Press the shutter button halfway down.

Introduction of other functions



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■ Control wheel

DISP (Display Contents): Allows you to change the screen display.

/ (Drive Mode): Allows you to switch between shooting methods, such as single shooting, continuous shooting or bracket shooting.

/ (Exposure Comp./Photo Creativity): Allows you to adjust image brightness./Allows you to operate the camera intuitively and shoot creative images easily.

(Flash Mode): Allows you to select a flash mode for still images.

■ Fn (Function) button

Allows you to register 12 functions and recall those functions when shooting.

- ① Press the Fn (Function) button.
- ② Select the desired function by pressing / / / on the control wheel.
- ③ Select the setting value by turning the control wheel or the control ring.

■ Control ring

Your favorite functions can be assigned to the control ring. When shooting, established settings can be changed just by turning the control ring.

Menu Items

(Camera Settings)

 Image Size	Selects the size of still images.
 Aspect Ratio	Selects the aspect ratio for still images.
 Quality	Sets the image quality for still images.
Panorama: Size	Selects the size of panoramic images.
Panorama: Direction	Sets the shooting direction for panoramic images.
 File Format	Selects the movie file format.
 Record Setting	Selects the size of the recorded movie frame.
Dual Video REC	Sets whether to simultaneously record an XAVC S movie and MP4 movie or an AVCHD movie and MP4 movie.
Drive Mode	Sets the drive mode, such as for continuous shooting.
Flash Mode	Sets the flash settings.
Flash Comp.	Adjusts the intensity of flash output.
Red Eye Reduction	Reduces the red-eye phenomenon when using flash.
Focus Mode	Selects the focus method.
Focus Area	Selects the area of focus.
 AF Illuminator	Sets the AF illuminator, which provides light for a dark scene to aid focusing.
Exposure Comp.	Compensates for the brightness of the entire image.
ISO	Adjusts the luminous sensitivity.
ND Filter	Sets the function that reduces the amount of light. You can set to a slower shutter speed, reduce the aperture value, etc.
Metering Mode	Selects the method for measuring brightness.
White Balance	Adjusts color tones of an image.
DRO/Auto HDR	Compensates automatically for brightness and contrast.
Creative Style	Selects the desired image processing. You can also adjust contrast, saturation and sharpness.

Picture Effect	Selects the desired effect filter to achieve a more impressive and artistic expression.
Focus Magnifier	Enlarges the image before shooting so that you can check the focus.
 Long Exposure NR	Sets noise reduction processing for shots with a shutter speed of 1/3 second or longer.
 High ISO NR	Sets noise reduction processing for high-sensitivity shooting.
Center Lock-on AF	Sets the function to track a subject and continue focusing when pressing the center button in the shooting screen.
Smile/Face Detect.	Selects to detect faces and adjust various settings automatically. Sets to automatically release the shutter when a smile is detected.
 Soft Skin Effect	Sets the Soft Skin Effect and the effect level.
 Auto Obj. Framing	Analyzes the scene when capturing faces, close-ups, or subjects tracked by Lock-on AF function, and automatically trims and saves another copy of the image with a more impressive composition.
Scene Selection	Selects pre-set settings to match various scene conditions.
Movie	Selects the exposure mode to suit your subject or effect.
 SteadyShot	Sets SteadyShot for shooting still images. Reduces blur from camera shake when shooting while holding the camera.
 SteadyShot	Sets SteadyShot for shooting movies.
 Color Space	Changes the range of reproducible colors.
 Auto Slow Shut.	Sets the function that automatically adjusts the shutter speed following the brightness of the environment in movie mode.
Audio Recording	Sets whether to record audio when shooting a movie.
Micref Level	Selects the microphone level during movie recording.
Wind Noise Reduct.	Reduces wind noise during movie recording.

Memory recall	Selects a setting registered in advance when the mode dial is set to MR (Memory recall).
Memory	Registers the desired modes or camera settings.

(Custom Settings)

Zebra	Displays stripes to adjust brightness.
 MF Assist	Displays an enlarged image when focusing manually.
Focus Magnif. Time	Sets the length of time the image will be shown in an enlarged form.
Grid Line	Sets a grid line display to enable alignment to a structural outline.
Auto Review	Sets auto review to display the captured image after shooting.
DISP Button	Sets the type of information to be displayed on the monitor or in the viewfinder by pressing DISP on the control wheel.
Peaking Level	Enhances the outline of in-focus ranges with a specific color when focusing manually.
Peaking Color	Sets the color used for the peaking function.
Exposure Set. Guide	Sets the guide displayed when exposure settings are changed in the shooting screen.
Live View Display	Sets whether or not to reflect settings such as exposure compensation in screen display.
 Pre-AF	Sets whether or not to perform auto focus before the shutter button is half pressed.
Zoom Setting	Sets whether to use the Clear Image Zoom and Digital Zoom when zooming.
FINDER/MONITOR	Sets the method for switching between the viewfinder and screen.
 AEL w/ shutter	Sets whether to perform AEL when the shutter button is half pressed. This is useful when you want to adjust the focus and exposure separately.
Self-portrait/ -timer	Sets whether to use a 3-second delay self-timer when the screen is tilted upward about 180 degrees.

Bracket order	Sets order of shooting for exposure bracket and white balance bracket.
Face Registration	Registers or changes the person to be given priority in the focus.
 Write Date	Sets whether to record a shooting date on the still image.
Function Menu Set.	Customizes the functions displayed when the Fn (Function) button is pressed.
Custom Key Settings	Assigns a desired function to the button and the control ring.
Zoom Func. on Ring	Sets the zooming function of the control ring. When you select [Step], you can move the zoom position to a fixed step of the focal length.
MOVIE Button	Sets whether to always activate the MOVIE button.
Wheel Lock	Sets whether to disable the control wheel temporarily by using the Fn button when shooting. You can disable/enable the control wheel by pressing and holding down the Fn button.

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(Wireless)

Send to Smartphone	Transfers images to display on a smartphone.
Send to Computer	Backs up images by transferring them to a computer connected to a network.
View on TV	You can view images on a network-enabled TV.
One-touch(NFC)	Assigns an application to One-touch (NFC). You can call up the application when shooting by touching an NFC-enabled smartphone to the camera.
Airplane Mode	You can set this device to not perform wireless communications.
WPS Push	You can register the access point to the camera easily by pushing the WPS button.
Access Point Set.	You can register your access point manually.
Edit Device Name	You can change the device name under Wi-Fi Direct, etc.
Disp MAC Address	Displays the MAC address of the camera.

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SSID/PW Reset	Resets the SSID and password of smartphone connection.
Reset Network Set.	Resets all network settings.

(Application)

Application List	Displays the application list. You can select the application you want to use.
Introduction	Displays instructions on using the application.

(Playback)

Delete	Deletes an image.
View Mode	Sets the way in which images are grouped for playback.
Image Index	Displays multiple images at the same time.
Display Rotation	Sets the playback direction of the recording image.
Slide Show	Shows a slide show.
Rotate	Rotates the image.
 Enlarge Image	Enlarges the playback images.
4K Still Image PB	Outputs still images in 4K resolution to an HDMI-connected TV that supports 4K.
Protect	Protects the images.
Motion Interval ADJ	Adjusts the interval for showing the tracking of subjects in [Motion Shot Video], where the tracking of the subject's motion will be shown when playing back movies.
Specify Printing	Adds a print order mark to a still image.
Beauty Effect	Retouches a person's face on a still image and saves the retouched image as a new image.

(Setup)

Monitor Brightness	Sets the screen brightness.
Viewfinder Bright.	Sets the brightness of the electronic viewfinder.
Finder Color Temp.	Sets the color temperature of the viewfinder.

Volume Settings	Sets the volume for movie playback.
Audio signals	Sets the operating sound of the camera.
Upload Settings	Sets the upload function of the camera when using an Eye-Fi card.
Tile Menu	Sets whether to display the tile menu every time you press the MENU button.
Mode Dial Guide	Turns the mode dial guide (the explanation of each shooting mode) on or off.
Delete confirm.	Sets whether Delete or Cancel is preselected in the Delete confirmation screen.
Display Quality	Sets the display quality.
Pwr Save Start Time	Sets the length of time until the camera turns off automatically.
PAL/NTSC Selector (only for 1080 50i compatible models)	By changing the TV format of the device, shooting in a different movie format is possible.
Demo Mode	Sets demonstration playback of a movie to on or off.
HDMI Settings	Sets the HDMI settings.
USB Connection	Sets the USB connection method.
USB LUN Setting	Enhances compatibility by limiting the functions of the USB connection. Set to [Multi] in normal conditions and to [Single] only when the connection between the camera and a computer or AV component cannot be established.
USB Power Supply	Sets whether to supply power using a USB connection.
 Language	Selects the language.
Date/Time Setup	Sets date and time, and daylight savings.
Area Setting	Sets the location of use.
Format	Formats the memory card.
File Number	Sets the method used to assign file numbers to still images and movies.
Select REC Folder	Changes the selected folder for storing images.

New Folder	Creates a new folder for storing still images and movies (MP4).
Folder Name	Sets the folder format for still images.
Recover Image DB	Recovers the image database file and enables recording and playback.
Display Media Info.	Displays the remaining recording time of movies and the recordable number of still images on the memory card.
Version	Displays the camera software version.
Setting Reset	Restores settings to their defaults.

Features of PlayMemories Home™

The software PlayMemories Home allows you to import still images and movies to your computer and use them. PlayMemories Home is required for importing XAVC S movies and AVCHD movies to your computer.



Importing images from
your camera



Playing back imported
images



GB

For Windows, the following functions are also
available:



Viewing images
on a calendar



Creating
movie
discs



Uploading
images to
network services

Sharing images on
PlayMemories Online™



Notes

- An Internet connection is required to install PlayMemories Home.
- An Internet connection is required to use PlayMemories Online or other network services. PlayMemories Online or other network services may not be available in some countries or regions.
- Use the following URL for Mac applications:
<http://www.sony.co.jp/imsoft/Mac/>
- If the software PMB (Picture Motion Browser), supplied with models released before 2011, has already been installed on your computer, PlayMemories Home will overwrite it during the installation. Use PlayMemories Home, the successor software of PMB.

■ System requirements

You can find the system requirements for the software at the following URL:
www.sony.net/pcenv/



■ Installing PlayMemories Home on a computer

- 1 Using the Internet browser on your computer, go to the following URL, and then install PlayMemories Home.

www.sony.net/pm/

- For details on PlayMemories Home, refer to the following PlayMemories Home support page (English only):
<http://www.sony.co.jp/pmh-se/>
- When installation is complete, PlayMemories Home starts.

- 2 Connect the camera to your computer using the micro USB cable (supplied).

- New functions may be installed in PlayMemories Home. Connect the camera to your computer even if PlayMemories Home is already installed on your computer.
-

Notes

- Do not disconnect the micro USB cable (supplied) from the camera while the operating screen or the accessing screen is displayed. Doing so may damage the data.
- To disconnect the camera from the computer, click  on the tasktray, then click [Eject PMHOME].

Features of Image Data Converter™

Below are examples of the functions available when you use Image Data Converter.

- You can edit RAW images using multiple correction functions, such as tone curve or sharpness.
- You can adjust images using white balance, brightness and Creative Style, etc.
- You can save displayed and edited still images to your computer.
There are two ways to save RAW images: save and leave as RAW data or save in a general-purpose file format.
- You can display and compare the RAW images/JPEG images that are shot with this camera.
- You can rank images in five levels.
- You can set the color label.

GB

■ Installing Image Data Converter

- 1 Download the software from the following URL and install it on your computer.

Windows: <http://www.sony.co.jp/imsoft/Win/>

Mac: <http://www.sony.co.jp/imsoft/Mac/>

■ Viewing Image Data Converter Guide

For details on how to use Image Data Converter, refer to the Image Data Converter Guide.

- 1 For Windows:
Click [Start] → [All Programs] → [Image Data Converter] → [Help] → [Image Data Converter Ver.4].

For Mac:

Start Finder → [Applications] → [Image Data Converter] → [Image Data Converter Ver.4] → In the menu bar, choose "Help" → Image Data Converter Guide.

- For Windows 8, start Image Data Converter Ver.4 → In the menu bar, choose "Help" → Image Data Converter Guide.
- For details on Image Data Converter, you can also refer to the camera's "Help Guide" (page 2) or the following Image Data Converter support page (English only):
<http://www.sony.co.jp/ids-se/>

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Adding functions to the camera

You can add the desired functions to your camera by connecting to the application download website  (PlayMemories Camera Apps™) via the Internet.

<http://www.sony.net/pmca/>

- After installing an application, you can call up the application by touching an NFC-enabled Android smartphone to the N mark on the camera, using the [One-touch(NFC)] function.

Number of still images and recordable time of movies

The number of still images and recordable time may vary depending on the shooting conditions and the memory card.

■ Still images

 Image Size]: L: 20M

When  Aspect Ratio] is set to [3:2]*

Quality \ Capacity	2 GB
Standard	295 images
Fine	170 images
Extra fine	125 images
RAW & JPEG	58 images
RAW	88 images

* When the  Aspect Ratio] is set to other than [3:2], you can record more pictures than shown above. (Except when  Quality] is set to [RAW].)

■ Movies

The table below shows the approximate total recording times using a memory card formatted with this camera. The recording time for XAVC S and AVCHD movies is when [Dual Video REC] set to [Off].

(h (hour), m (minute))

Record Setting \ Capacity	2 GB
60p 50M/50p 50M	—
30p 50M/25p 50M	—
24p 50M*	—
120p 50M/100p 50M	—
60i 24M(FX)/50i 24M(FX)	10 m
60i 17M(FH)/50i 17M(FH)	10 m
60p 28M(PS)/50p 28M(PS)	9 m
24p 24M(FX)/25p 24M(FX)	10 m
24p 17M(FH)/25p 17M(FH)	10 m
1440×1080 12M	15 m
VGA 3M	1 h 10 m

* only for 1080 60i compatible models

- Continuous shooting is possible for approximately 29 minutes (a product specification limit). The maximum continuous recording time of an MP4 (12M) format movie is about 15 minutes (limited by the 2 GB file size restriction).
- The recordable time of movies varies because the camera is equipped with VBR (Variable Bit-Rate), which automatically adjusts image quality depending on the shooting scene. When you record a fast-moving subject, the image is clearer but the recordable time is shorter because more memory is required for recording. The recordable time also varies depending on the shooting conditions, the subject or the image quality/size settings.

Notes on using the camera

Functions built into this camera

- This manual describes 1080 60i-compatible devices and 1080 50i-compatible devices. To check whether your camera is a 1080 60i-compatible device or 1080 50i-compatible device, check for the following marks on the bottom of the camera.
1080 60i-compatible device: 60i
1080 50i-compatible device: 50i
- This camera is compatible with 1080 60p or 50p-format movies. Unlike standard recording modes up to now, which record in an interlacing method, this camera records using a progressive method. This increases the resolution, and provides a smoother, more realistic image. Movies recorded in 1080 60p/1080 50p format can be played back only on 1080 60p/1080 50p-supported devices.
- While aboard an airplane, set [Airplane Mode] to [On].

On use and care

Avoid rough handling, disassembling, modifying, physical shock, or impact such as hammering, dropping, or stepping on the product. Be particularly careful of the lens.

Notes on recording/playback

- Before you start recording, make a trial recording to make sure that the camera is working correctly.
- The camera is neither dust-proof, nor splash-proof, nor water-proof.
- Do not aim the camera at the sun or other bright light. It may cause a malfunction of the camera.
- If moisture condensation occurs, remove it before using the camera.
- Do not shake or strike the camera. It may cause a malfunction and you may not be able to record images. Furthermore, the recording media may become unusable or image data may be damaged.

Do not use/store the camera in the following places

- In an extremely hot, cold or humid place
In places such as in a car parked in the sun, the camera body may become deformed and this may cause a malfunction.
- Storing under direct sunlight or near a heater
The camera body may become discolored or deformed, and this may cause a malfunction.
- In a location subject to rocking vibration
- Near a location that generates strong radio waves, emits radiation or is strongly magnetic place. Otherwise, the camera may not properly record or play back images.
- In sandy or dusty places
Be careful not to let sand or dust get into the camera. This may cause the camera to malfunction, and in some cases this malfunction cannot be repaired.

On carrying

- Do not sit down in a chair or other place with the camera in the back pocket of your trousers or skirt, as this may cause malfunction or damage the camera.

ZEISS lens

The camera is equipped with a ZEISS lens which is capable of reproducing sharp images with excellent contrast. The lens for the camera has been produced under a quality assurance system certified by ZEISS in accordance with the quality standards of ZEISS in Germany.

Notes on the screen, electronic viewfinder and lens

- The screen and electronic viewfinder are manufactured using extremely high-precision technology, and over 99.99% of the pixels are operational for effective use. However, some tiny black and/or bright dots (white, red, blue or green) may appear on the screen and electronic viewfinder. These dots are a normal result of the manufacturing process, and do not affect the recording.
- Do not hold the camera by the monitor or the viewfinder.

- Take care that your fingers or other objects are not caught in the lens when it is operating.
- Take care that your finger is not in the way when pushing the viewfinder down.
- Do not forcibly push down the viewfinder when the eyepiece is pulled out.
- If water, dust or sand adheres to the viewfinder unit, it may cause a malfunction.

Notes on shooting with the viewfinder

This camera is equipped with an Organic Electro-Luminescence viewfinder with high resolution and high contrast. The camera is designed to provide an easily viewable viewfinder by appropriately balancing various elements.

- The image may be slightly distorted near the corners of the viewfinder. This is not a malfunction. When you want to check every detail of the entire composition, you can also use the monitor.
- If you pan the camera while looking into the viewfinder or move your eyes around, the image in the viewfinder may be distorted or the color of the image may change. This is a characteristic of the lens or display device and is not a malfunction. When you shoot an image, we recommend that you look at the center area of the viewfinder.

Notes on the flash

- Do not carry the camera by the flash unit, or use excessive strength on it.
- If water, dust or sand get into the open flash unit, it may cause a malfunction.
- Take care that your finger is not in the way when pushing the flash down.

Sony accessories

Use only genuine Sony brand accessories, otherwise it may cause a malfunction. Sony brand accessories may not come to market for some countries or regions.

On camera's temperature

Your camera and battery may get hot due to continuous use, but it is not a malfunction.

On the overheat protection

Depending on the camera and battery temperature, you may be unable to record movies or the power may turn off automatically to protect the camera.

A message will be displayed on the screen before the power turns off or you can no longer record movies. In this case, leave the power off and wait until the camera and battery temperature goes down. If you turn on the power without letting the camera and battery cool down enough, the power may turn off again or you may be unable to record movies.

On charging the battery

- If you charge a battery that has not been used for a long time, you may be unable to charge it to the proper capacity.
This is due to the battery characteristics. Charge the battery again.
- Batteries which have not been used for more than a year may have become deteriorated.

Warning on copyright

Television programs, films, videotapes, and other materials may be copyrighted. Unauthorized recording of such materials may be contrary to the provisions of the copyright laws.

No guarantee in the case of damaged content or recording failures

Sony cannot provide a guarantee in the case of failure to record or loss or damage of recorded content due to a malfunction of the camera or recording media, etc.

Cleaning the camera surface

Clean the camera surface with a soft cloth slightly moistened with water, then wipe the surface with a dry cloth. To prevent damage to the finish or casing:

- Do not expose the camera to chemical products such as thinner, benzine, alcohol, disposable cloths, insect repellent, sunscreen or insecticide.

Maintaining the screen

- Hand cream or moisturizer left on the screen may dissolve its coating. If you get any on the screen, wipe it off immediately.
- Wiping forcefully with tissue paper or other materials can damage the coating.
- If fingerprints or debris are stuck to the screen, we recommend that you gently remove any debris and then wipe the screen clean with a soft cloth.

Notes on wireless LAN

We assume no responsibility whatsoever for any damage caused by unauthorized access to, or unauthorized use of, destinations loaded on the camera, resulting from loss or theft.

Specifications

Camera

[System]

Image device: 13.2 mm × 8.8 mm
(1.0 type) Exmor R™ CMOS
sensor

Total pixel number of camera:
Approx. 20.9 Megapixels

Effective pixel number of camera:
Approx. 20.1 Megapixels

Lens: ZEISS Vario-Sonnar T* 2.9×
zoom lens

f = 8.8 mm – 25.7 mm (24 mm –
70 mm (35 mm film equivalent))

F1.8 (W) – F2.8 (T)

While shooting movies (16:9):
25.5 mm – 74 mm^{*1}

While shooting movies (4:3):
31 mm – 90 mm^{*1}

^{*1} When [] [] [] SteadyShot] is set to
[Standard]

SteadyShot: Optical

File format:

Still images: JPEG (DCF, Exif,
MPF Baseline) compliant, RAW
(Sony ARW 2.3 Format), DPOF
compatible

Movies (XAVC S format):
MPEG-4 AVC/H.264 XAVC S
ver.1.0 format compliant

Video: MPEG-4 AVC/H.264
Audio: Linear PCM 2ch (48 kHz
16 bit)

Movies (AVCHD format):
AVCHD format Ver. 2.0
compatible

Video: MPEG-4 AVC/H.264
Audio: Dolby Digital 2ch,
equipped with Dolby Digital Stereo
Creator

• Manufactured under license from
Dolby Laboratories.

Movies (MP4 format):

Video: MPEG-4 AVC/H.264

Audio: MPEG-4 AAC-LC 2ch

Recording media: Memory Stick PRO
Duo media, Memory Stick Micro
media, SD cards, microSD memory
cards

Flash: Flash range (ISO sensitivity
(Recommended Exposure Index)
set to Auto):

Approx. 0.4 m to 10.2 m
(1.31 ft. to 33.46 ft.) (W)/

Approx. 0.4 m to 6.5 m
(1.31 ft. to 21.33 ft.) (T)

[Input and Output connectors]

HDMI connector: HDMI micro jack
Multi/Micro USB Terminal*:

USB communication

USB communication: Hi-Speed USB
(USB 2.0)

* Supports Micro USB compatible
device.

[Viewfinder]

Type: Electronic viewfinder (Organic
Electro-Luminescence)

Total number of dots:

1 440 000 dots

Frame coverage: 100%

Magnification: Approx. 0.59 ×
(35 mm-format equivalent) with 50
mm lens at infinity, -1 m^{-1}

Eye point: Approx. 20 mm from the
eyepiece, 19.2 mm from the
eyepiece frame at -1 m^{-1}

* Diopter adjustment:
 -4.0 m^{-1} to $+3.0 \text{ m}^{-1}$

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[Monitor]

LCD monitor:

7.5 cm (3.0 type) TFT drive

Total number of dots:

1 228 800 dots

[Power, general]

Power: Rechargeable battery pack

NP-BX1, 3.6 V

AC Adaptor AC-UB10C/UB10D,
5 V

Power consumption:

Approx. 1.7 W (during shooting
with the monitor)

Approx. 2.3 W (during shooting
with the viewfinder)

Operating temperature: 0 °C to 40 °C
(32 °F to 104 °F)

Storage temperature: -20 °C to +60 °C
(-4 °F to +140 °F)

Dimensions (CIPA compliant):

101.6 mm × 58.1 mm × 41.0 mm
(4 inches × 2 3/8 inches ×
1 5/8 inches) (W/H/D)

Mass (CIPA compliant) (Approx.):

290 g (10.2 oz) (including NP-BX1
battery pack, Memory Stick PRO
Duo media)

Microphone: Stereo

Speaker: Monaural

Exif Print: Compatible

PRINT Image Matching III:
Compatible

[Wireless LAN]

Supported standard: IEEE 802.11 b/g/n

Frequency: 2.4GHz

Supported security protocols: WEP/
WPA-PSK/WPA2-PSK

Configuration method: WPS (Wi-Fi
Protected Setup) / manual

Access method: Infrastructure Mode

NFC: NFC Forum Type 3 Tag
compliant

Model No. WW808161

AC Adaptor AC-UB10C/UB10D

Power requirements: AC 100 V to
240 V, 50 Hz/60 Hz, 70 mA

Output voltage: DC 5 V, 0.5 A

**Rechargeable Battery Pack
NP-BX1**

Battery type: Lithium-ion battery

Maximum voltage: DC 4.2 V

Nominal voltage: DC 3.6 V

Maximum charge voltage: DC 4.2 V

Maximum charge current: 1.89 A

Capacity: Typical 4.5 Wh (1 240 mAh)

Design and specifications are subject to
change without notice.

Trademarks

- Memory Stick and  are trademarks or registered trademarks of Sony Corporation.
- XAVC S and  are registered trademarks of Sony Corporation.
- “AVCHD Progressive” and “AVCHD Progressive” logotype are trademarks of Panasonic Corporation and Sony Corporation.
- Dolby and the double-D symbol are trademarks of Dolby Laboratories.
- The terms HDMI and HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries.
- Windows is a registered trademark of Microsoft Corporation in the United States and/or other countries.
- Mac is a registered trademark of Apple Inc. in the United States and other countries.
- iOS is a registered trademark or trademark of Cisco Systems, Inc.
- iPhone and iPad are registered trademarks of Apple Inc. in the United States and other countries.
- SDXC logo is a trademark of SD-3C, LLC.
- Android, Google Play are trademarks of Google Inc.
- Wi-Fi, the Wi-Fi logo, Wi-Fi PROTECTED SET-UP are registered trademarks of the Wi-Fi Alliance.
- The N Mark is a trademark or registered trademark of NFC Forum, Inc. in the United States and in other countries.
- DLNA and DLNA CERTIFIED are trademarks of Digital Living Network Alliance.
- Facebook and the “f” logo are trademarks or registered trademarks of Facebook, Inc.
- YouTube and the YouTube logo are trademarks or registered trademarks of Google Inc.
- Eye-Fi is a trademark of Eye-Fi, Inc.
- In addition, system and product names used in this manual are, in general, trademarks or registered trademarks of their respective developers or manufacturers. However, the TM or ® marks may not be used in all cases in this manual.

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Additional information on this product and answers to frequently asked questions can be found at our Customer Support Website.

<http://www.sony.net/>

進一步瞭解相機（“說明指南”）



“說明指南”是一部線上說明書。您可以閱讀電腦上或智慧型手機上的“說明指南”。請參閱此說明書，以深入瞭解有關相機的眾多功能。

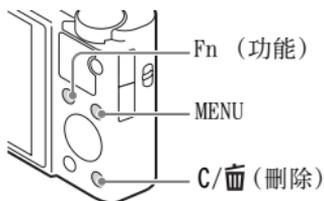
URL:

http://rd1.sony.net/help/dsc/1410/h_zz/



檢視指南

本相機配備內建的使用指南。



相機指南

相機顯示 MENU/Fn（功能）項目和設定值的解釋。

- ① 按一下 MENU 按鈕或 Fn（功能）按鈕。
- ② 選擇所需項目，然後按下 C/DELETE（刪除）按鈕。

警告

為減少發生火災或電擊的危險，請勿讓本機暴露於雨中或受潮。

重要的安全指示

— 請保存這些指示危險

為了降低火災或電擊的危險，請小心遵守這些指示

注意

CT

電池組

如果電池組處理不當，電池組可能會爆炸，造成火災，甚至化學灼傷。請遵循以下注意事項。

- 切勿拆解。
- 切勿擠壓，撞擊電池組或對電池組用力過度，如敲擊，跌落或踩踏在電池組上。
- 切勿短路或讓金屬物品接觸到電池端子。
- 切勿暴露在超過 60 °C 的高溫下，例如直射陽光下，或停在太陽下的汽車內。
- 切勿焚化或丟棄在火中。
- 切勿處理損壞或洩漏的鋰離子電池。
- 務必使用 Sony 原廠的充電器或可對電池組充電的裝置來為電池組充電。
- 電池組應放在幼兒不易觸及的地方。
- 使電池組保持乾燥。
- 請僅使用與 Sony 建議的相同或相等的電池類型進行更換。
- 請依照說明書中的說明正確丟棄舊電池組。

電源供應器

使用電源供應器時，請使用附近牆上的電源插座。如果在使用設備時發生任何故障，請立即將電源供應器從牆上的電源插座拔掉。

如果附帶電源線，則該電源線專為本相機設計，不能用於其他電子設備。

通知

如果靜電或電磁導致資料傳送中斷（失敗），請重新啟動應用程式或斷開連接，並重新連接通信電纜（USB 等）。

本產品已經過測試並確定符合 EMC 規定中所提出的使用連接電纜不得超過 3 公尺的限制。

特定頻率的電磁場可能會影響此機的畫面和聲音。

經型式認證合格之低功率射頻電機，非經許可，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。

低功率射頻電機之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。前項合法通信，指依電信法規定作業之無線電通信。低功率射頻電機須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

僅適用於台灣



廢電池請回收

附屬電纜上附有鐵芯時的注意事項：USB 電纜或 A/V 連接電纜或電源供應器之 DC 輸出線的一個鐵芯係抑制電磁波干擾用，請勿任意拆卸。

僅適用於台灣

生產國別：中國

製造廠商：SONY CORPORATION

進口商：台灣索尼股份有限公司

地址：台北市長春路 145 號 5 樓

諮詢專線：4499111

從經營觀光客生意的日本商店購買相機的客戶

附註

在相機螢幕上可確認相機所支援標準的某些認證標記。

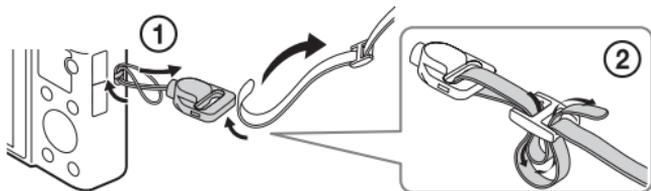
選擇 MENU →  (設定) 6 → [認證標誌]。

如果因相機故障等問題無法顯示，請聯絡 Sony 經銷商或當地授權的 Sony 服務機構。

檢查隨附項目

括號中的數字代表的是件數。

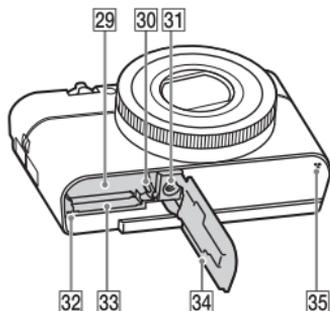
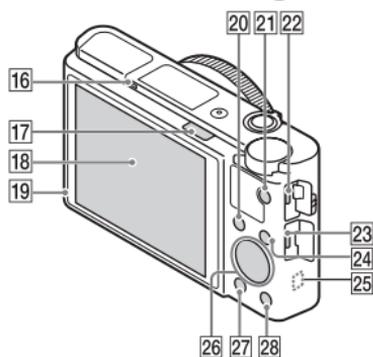
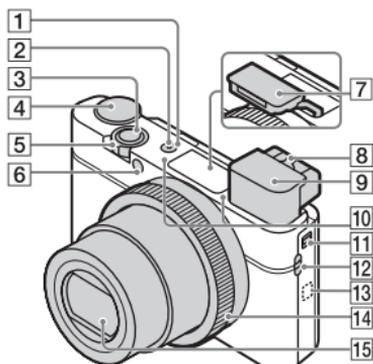
- 相機 (1)
- 充電電池 NP-BX1 (1)
- 微型 USB 電纜 (1)
- 電源供應器 AC-UB10C/UB10D (1)
- 電源線 (在美國與加拿大非附件) (1)
- 腕帶 (1)
- 帶扣 (2)
(帶扣是用來連接肩帶 (另售), 如圖所示。)



- 使用說明書 (本手冊) (1)
- Wi-Fi Connection/One-touch (NFC) Guide (1)
本指南解釋需要 Wi-Fi 連接的功能。

如需有關 Wi-Fi 功能 / 觸控 (NFC) 功能的進一步詳情, 請參閱 “Wi-Fi Connection/One-touch (NFC) Guide” (附件) 或 “說明指南” (第 2 頁)。

認識各部件



1 ON/OFF (電源) 開關

2 電源 / 充電指示燈

3 快門按鈕

4 模式轉盤

iA (智慧式自動) /

iA+ (高級自動) /

P (程式自動) /

A (光圈優先) /

S (快門速度優先) /

M (手動曝光) /

MR (記憶回復) /

MR (動態影像) /

MR (全景攝影) /

MR (場景選擇)

5 用來拍攝: W/T (變焦) 桿

用於觀看:  (索引) 桿 / 播放變焦桿

6 自拍定時器指示燈 / AF 照明器

7 閃光燈

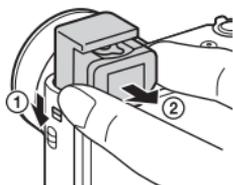
- 請勿讓手指遮住閃光燈。

- 使用閃光燈時，滑動  (閃光燈彈出) 開關。如果不使用閃光燈，請以手動方式將其往下按。

- 閃光燈不用時，將其按回相機機身內。

8 屈光度調整桿

9 觀景窗



- 使用觀景窗時，將觀景窗彈出開關往下滑，然後將目鏡從觀景窗拉出直到聽到咔嗒一聲為止。
- 當您往觀景窗裡看時，觀景窗模式會啟動，而當您的臉離開觀景窗時，觀景模式會返回到螢幕模式。

10 麥克風

11 觀景窗彈出開關

12 掛帶掛勾

13 (N 標記)

- 當您將相機連接到配備 NFC 功能的智慧型手機時，碰觸此標記。
- NFC (Near Field Communication) 是一種短距離無線通訊技術的國際標準。

14 控制環

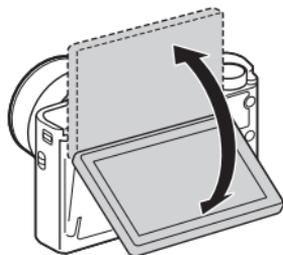
15 鏡頭

16 眼睛感應器

17 (鏡頭彈出) 開關

18 螢幕

- 您可以將螢幕調整到可以輕鬆觀看的角度，並從任何位置拍攝。



19 光感應器

20 用來拍攝：Fn (功能) 按鈕 用於觀看： (傳送至智慧型手機) 按鈕

21 MOVIE (動態影像) 按鈕

22 Multi/Micro USB 端子

- 支援相容於微型 USB 的裝置。

23 HDMI 微型插孔

24 MENU 按鈕

25 Wi-Fi 感應器 (內建)

26 控制滾輪

27 (播放) 按鈕

28 (自訂 / 刪除) 按鈕

29 電池插入槽

30 電池退出桿

31 三腳架安裝孔

- 請使用螺絲長度在 5.5 公釐以下的三腳架。否則無法將相機牢靠地固定住，而且可能會對相機造成損壞。

32 存取指示燈

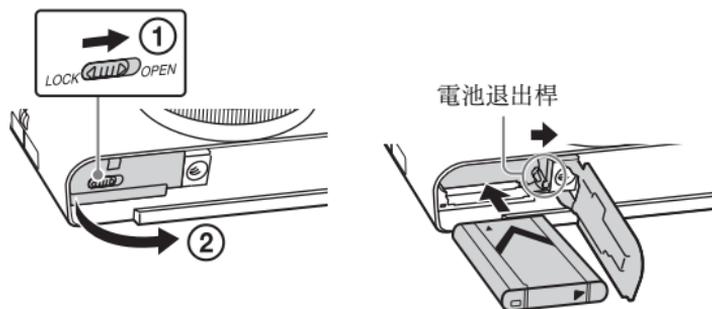
33 記憶卡插槽

34 電池 / 記憶卡蓋

35 喇叭

CT

插入電池



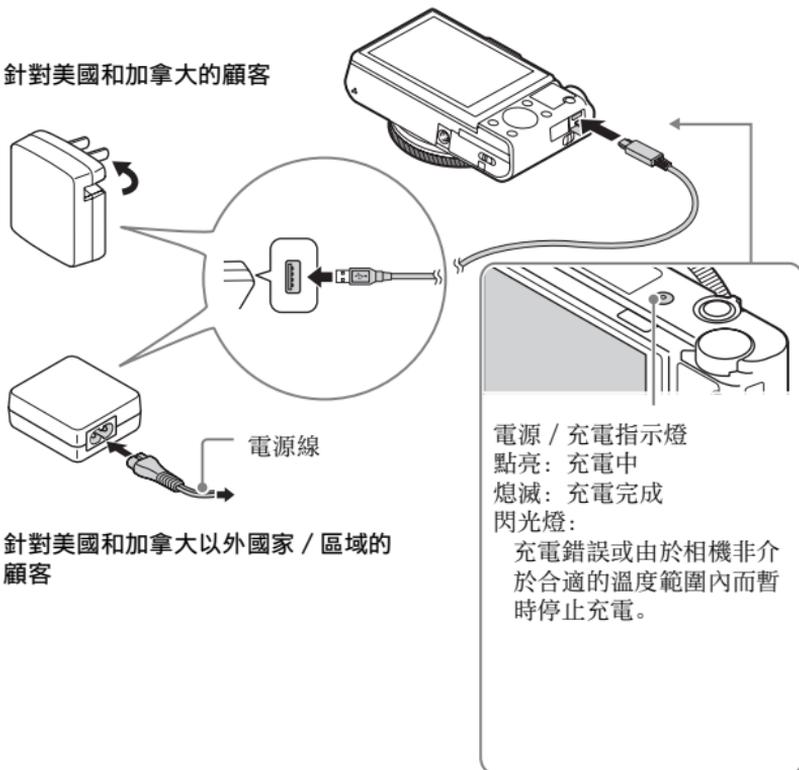
1 打開蓋子。

2 插入電池。

- 如圖所示，在按下電池退出桿時插入電池。確保電池退出桿在插入後鎖住。
- 在電池插入不正確的情況下闔上蓋子可能對相機造成損壞。

為電池組充電

針對美國和加拿大的顧客



針對美國和加拿大以外國家 / 區域的顧客

1 用微型 USB 電纜（附件）將相機連接到電源供應器（附件）上。

2 將電源供應器連接到電源插座。

電源 / 充電指示燈點亮橘色的燈，充電開始。

- 對電池充電時，關閉相機電源。
- 即使電池仍有部份充電，您也可以對其充電。
- 電源 / 充電指示燈閃爍而且充電未完成時，取出電池之後再插回去。

附註

- 電源供應器連接到牆上的電源插座時，如果相機上的電源 / 充電指示燈閃爍，表示因為溫度超出建議範圍外而暫停充電。當溫度恢復到適當範圍時，便會再開始繼續充電。我們建議在介於 10 °C 至 30 °C 之間的周邊溫度下對電池充電。
- 如果電池端子部份髒了，則電池無法有效充電。在這種情況下，用軟布或棉花棒輕輕擦掉灰塵以便清潔電池的端子部份。
- 將電源供應器（附件）連接到最近的牆上電源插座。如果使用電源供應器時發生故障，立即將插頭從牆上電源插座拔掉以便中斷電源。
- 充電完成時，將電源供應器從牆上電源插座拔掉。
- 務必只使用原廠的 Sony 電池、微型 USB 電纜（附件）以及電源供應器（附件）。
- 電源供應器 AC-UD11（另售）在某些國家 / 地區可能不供應。

■ 充電時間（完全充電）

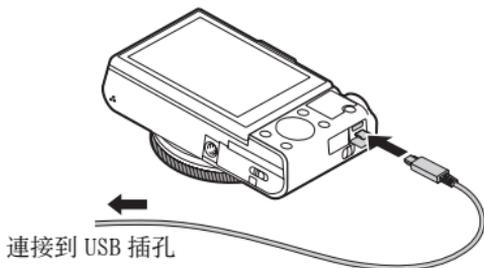
使用電源供應器（附件）的充電時間大約是 230 分鐘。

附註

- 上述充電時間適用於在 25 °C 的溫度下為電力完全耗盡的電池充電時。視使用的情況與環境而定，充電時間可能更長。

■ 連接到電腦充電

可以用微型 USB 電纜將相機連接到電腦，然後為電池充電。在相機關機的情況下，將相機連接到電腦。



CT

- 如果您在電源啟動的情況下將相機連接到電腦，相機將由電腦供電，這可使您將影像匯入電腦，而無需擔心電池電力耗盡。

附註

- 當透過電腦充電時，請注意下列事項：
 - 若相機連接到未連接電源的筆記型電腦，筆記型電腦的電量會降低。請勿長時間充電。
 - 當電腦與相機之間已建立 USB 連線時，請勿開 / 關或重新啟動電腦，或從睡眠模式叫醒電腦。這可能會造成相機故障。在開啟 / 關閉電源或是重新啟動電腦或將電腦從睡眠模式喚醒之前，請中斷相機與電腦的連接。
 - 不保證可使用自組電腦、改裝電腦充電。

■ 電池壽命以及可以錄製和播放的影像數目

		電池壽命	影像的數目
拍攝（靜態影像）	螢幕	大約 160 分鐘	大約 320 張影像
	觀景窗	大約 115 分鐘	大約 230 張影像
典型的動態影像拍攝	螢幕	大約 50 分鐘	—
	觀景窗	大約 50 分鐘	—
連續拍攝動態影像	螢幕	大約 85 分鐘	—
	觀景窗	大約 90 分鐘	—
觀賞（靜態影像）		大約 215 分鐘	大約 4300 張影像

附註

- 以上影像數目適用於電池完全充電時。視使用情況而定，影像數目可能減少。
- 可以錄製的影像數目用於在下列情況下拍攝：
 - 使用 Sony Memory Stick PRO Duo™ (Mark2) (另售)
 - 電池在 25 °C 的環境溫度下使用。
 - [顯示品質] 是設定為 [標準]
- “拍攝（靜態影像）”的數目是根據 CIPA 標準，並且用於在下列情況下拍攝：
(CIPA: Camera & Imaging Products Association)
 - DISP 設定為 [顯示所有資訊]。
 - 每 30 秒鐘拍一張。
 - 變焦在 W 和 T 端之間輪流切換。
 - 每拍攝兩次閃光燈閃光一次。
 - 每拍攝十次打開和關閉電源一次。
- 動態影像拍攝的分鐘數取決於 CIPA 標準，並在下列情況下拍攝：
 - [錄影] 錄製設定：60i 17M (FH) / 50i 17M (FH)
 - 典型的動態影像拍攝：根據反覆開始 / 停止拍攝、變焦、開啟 / 關閉電源等等的電池壽命。
 - 動態影像連續拍攝：根據不間斷的拍攝直到已達到上限（29 分鐘），然後再度按下 MOVIE 按鈕繼續的電池壽命。未操作其他功能（例如變焦）。

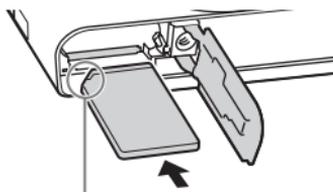
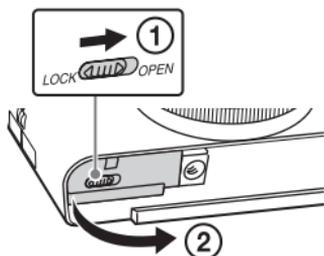
■ 供電

您可以使用電源供應器 AC-UD10（另售）或 AC-UD11（另售）用於拍攝和播放，以便在拍攝或播放影像時供電。

附註

- 當隨機附贈的電源供應器連接到相機時，您不能拍攝或播放影像。

插入記憶卡（另售）



確認缺角那頭朝向正確的方向。

CT

1 打開蓋子。

2 插入記憶卡（另售）。

- 在缺角朝向圖示方向的情況下，將記憶卡插入直到卡入定位為止。

3 關上蓋子。

■ 可以使用的記憶卡

	記憶卡	對於靜態影像	對於動態影像
A	Memory Stick XC-HG Duo™	✓	✓
	Memory Stick PRO Duo	✓	✓（僅 Mark2）
	Memory Stick PRO-HG Duo™	✓	✓
B	Memory Stick Micro™（M2）	✓	✓（僅 Mark2）
C	SD 記憶卡	✓	✓（Class 4 或者更快）
	SDHC 記憶卡	✓	✓（Class 4 或者更快）
	SDXC 記憶卡	✓	✓（Class 4 或者更快）
D	microSD 記憶卡	✓	✓（Class 4 或者更快）
	microSDHC 記憶卡	✓	✓（Class 4 或者更快）
	microSDXC 記憶卡	✓	✓（Class 4 或者更快）

- 在此說明書中，表中的產品統稱如下：
 - A: Memory Stick PRO Duo
 - B: Memory Stick Micro
 - C: SD 卡
 - D: microSD 記憶卡
- 錄製 XAVC S 格式的動態影像時，使用下列記憶卡：
 - SDXC 記憶卡（64 GB 或者更多以及 Class 10 或者更快）
 - SDXC 記憶卡（64 GB 或者更多以及與 UHS-I 相容）
 - Memory Stick XC-HG Duo
- 本相機支援與 UHS-I 相容的 SD 卡。

附註

- 以本相機使用 Memory Stick Micro 或 microSD 記憶卡時，務必要使用適當的轉接卡。

■ 若要取出記憶卡 / 電池

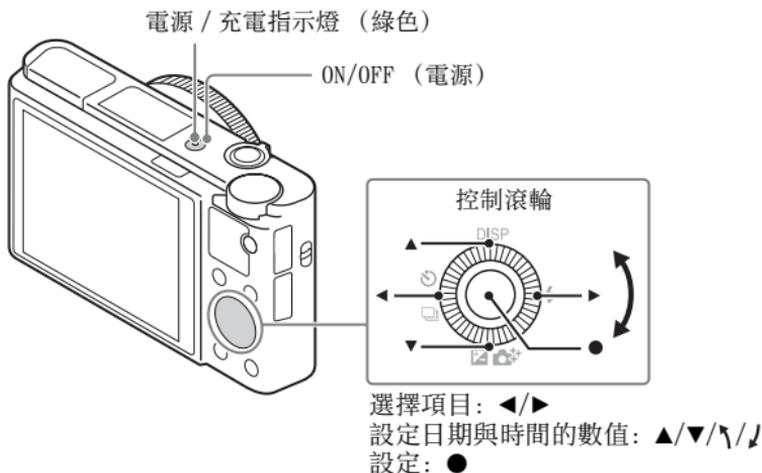
記憶卡：按壓記憶卡一次以退出記憶卡。

電池組：滑動電池退出桿。確保勿讓電池掉落。

附註

- 切勿在存取指示燈（第 7 頁）發亮時取出記憶卡 / 電池。這可能會對記憶卡中的資料造成損壞。

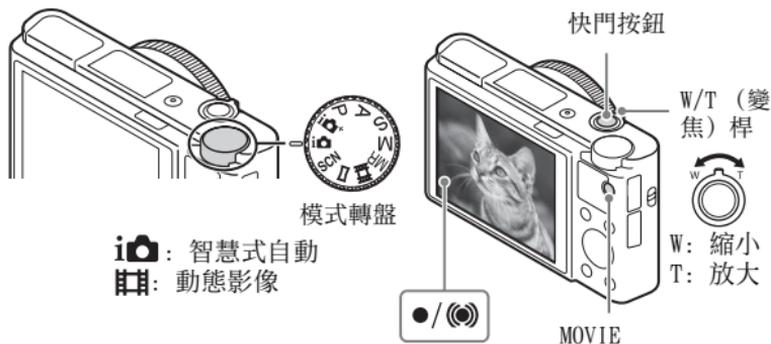
設定時鐘



CT

- 1 按 ON/OFF (電源) 按鈕。
日期與時間設定會在您首次開機時顯示出來。
 - 可能需要一點時間才能開啟電源並進行操作。
- 2 確認畫面上選擇了 [進入]，然後按下控制滾輪上的 ●。
- 3 按照畫面上的指示選擇所需的地理上的位置，然後按 ●。
- 4 設定 [日光節約時間]、[日期 / 時間] 和 [日期格式]，然後按下 ●。
 - 設定 [日期 / 時間] 時，凌晨為 12:00 AM，中午為 12:00 PM。
- 5 確認選擇了 [進入]，然後按下 ●。

拍攝靜態影像 / 動態影像



拍攝靜態影像

- 1 將快門按鈕按下一半以便對焦。
當影像對焦時，會發出嗶聲，且指示器 ● 或 (●) 會發亮。
- 2 完全按下快門按鈕以拍攝影像。

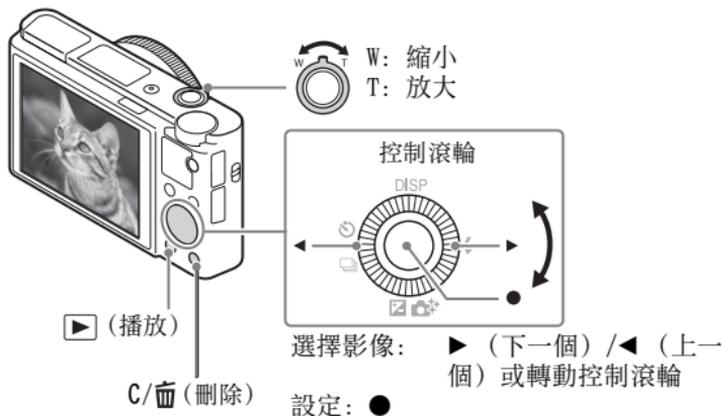
拍攝動態影像

- 1 按下 MOVIE (動態影像) 按鈕以開始錄製。
 - 用 W/T (變焦) 桿變更變焦比率。
- 2 再按一次 MOVIE 按鈕以停止錄製。

附註

- 拍攝動態影像的同時使用變焦功能時，會錄下相機的操作聲音。當動態影像錄製完成時，可能也會錄下 MOVIE 按鈕操作的聲音。
- 當周邊溫度約 25 °C 時，按相機的預設設定，一次可能連續拍攝動態影像約 29 分鐘。動態影像錄製完成時，您可以透過再度按下 MOVIE 按鈕重新開始錄製。視周邊溫度而定，可能會停止錄製以保護相機。

觀賞影像



CT

1 按▶ (播放) 按鈕。

■ 選擇下一個 / 上一個影像

透過按下控制滾輪上的 ▶ (下一個) / ◀ (上一個) 或轉動控制滾輪，選擇一個影像。按下控制滾輪中央的 ● 以觀賞動態影像。

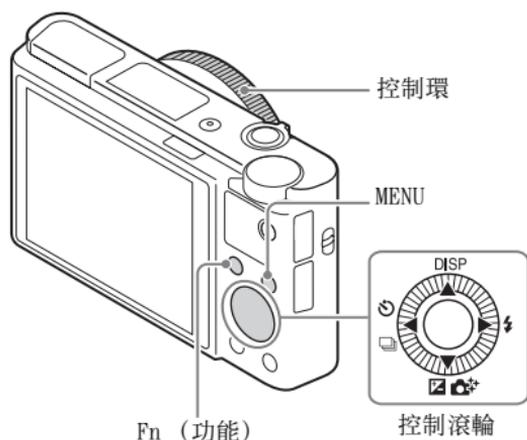
■ 刪除一個影像

- ① 按下 C/🗑️ (刪除) 按鈕。
- ② 用控制滾輪上的 ▲ 選擇 [刪除]，然後按下 ●。

■ 返回拍攝影像

半按下快門按鈕。

其他功能的介紹



■ 控制滾輪

DISP (顯示內容): 讓您變更螢幕顯示。

☺/☒ (過片模式): 讓您在各拍攝方法之間 (例如單張拍攝、連續拍攝或包圍式拍攝) 切換。

☒/☺+ (曝光補償 / 相片創造): 讓您可以調整影像亮度。/ 讓您可以直覺地操作相機並且輕鬆地拍攝具有創意的影像。

⚡ (閃光燈模式): 讓您選擇靜態影像的閃光燈模式。

■ Fn (功能) 按鈕

讓您登記 12 種功能，並在拍攝時調用這些功能。

- ① 按 Fn (功能) 按鈕。
- ② 在控制滾輪上按 ▲/▼/◀/▶，以選擇要使用的功能。
- ③ 透過轉動控制滾輪或控制環以選擇設定值。

■ 控制環

您可以將喜愛的功能指定給控制環。拍攝時，只要轉動控制環，即可變更建立的設定。

■ 選單項目

📷 (拍攝設定)

 影像尺寸	選擇靜態影像的大小。
 長寬比	選擇靜態影像的長寬比。
 影像品質	設定靜態影像的影像畫質。
全景：影像尺寸	選擇全景影像的大小。
全景：方向	設定全景影像的拍攝方向。
 檔案格式	選擇動態影像的檔案格式。
 錄製設定	選擇錄製的動態影像圖幀的大小。
雙重影像錄製	設定是否要同時錄製 XAVC S 動態影像以及 MP4 動態影像或 AVCHD 動態影像以及 MP4 動態影像。
過片模式	設定過片模式，例如用於連續拍攝。
閃光燈模式	設定閃光燈設定。
閃光補償	調整閃光燈輸出的強度。
紅眼減弱	使用閃光燈時，減少紅眼現象。
對焦模式	選擇對焦方法。
對焦區域	選擇對焦區域。
 AF 輔助照明	設定 AF 照明器，為黑暗場景提供照明以輔助對焦。
曝光補償	補償整個影像的亮度。
ISO	調整光敏感度。
ND 篩選器	設定此功能即可減少亮度。您可以設定為較慢的快門速度和減少光圈值等。
測光模式	選擇測量亮度的方法。
白平衡	調整影像的色調。
DR0/ 自動 HDR	自動補償亮度與對比度。
風格設定	選擇要使用的影像處理。您也可以調整對比度、飽和度以及清晰度。
相片效果	選擇所需的效果濾鏡，以達到更令人印象深刻以及藝術化的表現。
對焦放大鏡	在拍攝之前放大影像，使您可以檢查對焦。

 消除長曝雜訊	為快門速度為 1/3 秒鐘或者更長的拍攝設定雜訊消除處理。
 高 ISO 雜訊消除	設定高感光度拍攝的雜訊消除處理。
中央鎖定 AF	按下拍攝螢幕的中央按鈕時，設定功能以追蹤被攝體並繼續對焦。
微笑 / 面孔偵測	選擇偵測面孔並自動調整各種不同的設定。設定偵測到微笑時自動釋放快門。
 柔膚效果	設定柔膚效果以及效果等級。
 自動取景	捕捉面孔影像、近拍或透過鎖定 AF 功能追蹤被攝體時分析場景，並以更令人印象深刻的構圖，自動修剪並儲存影像的另一個副本。
場景選擇	選擇預設的設定，以便與各種場景條件配合。
動態影像	選擇曝光模式，以便配合拍攝物體或效果。
 SteadyShot	設定 SteadyShot 以拍攝靜態影像。減少手持相機拍攝時因相機晃動而造成的模糊。
 SteadyShot	設定 SteadyShot 以拍攝動態影像。
 色彩空間	變更可再生色彩的範圍。
 自動慢速快門	設定在動態影像模式下，依照環境的亮度自動調整快門速度的功能。
音訊錄製	設定拍攝動態影像時是否錄製聲音。
麥克風參考電平	選擇動態影像錄製期間的麥克風音量。
減少風噪音	減少動態影像錄製期間的風噪音。
記憶回復	當模式轉盤設定為 MR （記憶回復）時，選擇事先登錄的設定。
記憶	登記要使用的模式或相機設定。

⚙️ (自訂設定)

斑馬圖案	顯示條紋以調整亮度。
 MF 輔助	在手動對焦時顯示放大的影像。
對焦放大時間	設定影像會以放大形式顯示的時間長度。
格線	設定格線顯示，以便與結構輪廓對齊。
自動檢視	設定拍攝後自動檢視以顯示捕捉的影像。
DISP 按鈕	透過按下控制滾輪上的 DISP，以設定要在螢幕上或觀景窗中顯示的資訊類型。
峰值等級	在手動對焦時以特定顏色增強對焦範圍的輪廓。
峰值顏色	設定用於峰值功能的顏色。
曝光設定指南	當拍攝螢幕中的曝光設定變更時，設定顯示的指南。
Live View 顯示	設定是否要在畫面顯示中反映曝光補償等設定。
 預先 AF	設定是否要在半按下快門前執行自動對焦。
變焦設定	設定是否要在對焦時使用清晰影像變焦以及數位變焦。
FINDER/MONITOR	設定在觀景窗和螢幕之間切換的方法。
 含快門的 AEL	設定是否要在半按下快門按鈕時執行 AEL。想要分別調整對焦和曝光時，這很有用。
自拍肖像自拍定時器	當螢幕向上傾斜約 180 度時，設定是否要使用 3 秒延遲自拍定時器。
階段順序	設定曝光包圍和白平衡包圍的拍攝順序。
面孔登錄	登錄或變更要優先對焦的人。
 寫入日期	設定是否在靜態影像上記錄拍攝日期。
功能選單設定	自訂按下 Fn (功能) 按鈕時顯示的功能。
自訂鍵設定	將要使用的功能指定給此按鈕以及控制環。
控制環的變焦功能	設定控制環的縮放功能。當您選取 [級數]，可以以固定的焦距間距移動變焦位置。
MOVIE 按鈕	設定是否一律啟動 MOVIE 按鈕。
滾輪鎖	當拍攝時，透過使用 Fn 按鈕，以設定是否要暫時停用控制滾輪。您可以透過按下並按住 Fn 按鈕保持往下按，以停用 / 啟用控制滾輪。

(無線)

傳送至智慧型手機	傳輸影像以便在智慧型手機上顯示。
傳送至電腦	透過將影像傳輸至連線到網路的電腦以備份影像。
在 TV 上觀看	您可以在具有網路功能的電視機上觀賞影像。
觸控 (NFC)	指定一個應用程式給觸控 (NFC)。您可以在拍攝時藉由將具有 NFC 功能的智慧型手機碰觸相機，叫出應用程式。
飛航模式	您可以將此裝置設定為不執行無線通訊。
WPS 按鍵	您可以透過按 WPS 按鈕將存取點輕鬆地登錄至相機。
存取點手動設定	您可以手動登錄您的存取點。
編輯裝置名稱	您可以在 Wi-Fi Direct 等之下變更裝置名稱。
顯示 MAC 地址	顯示相機的 MAC 位址。
SSID/ 密碼重設	重新設定智慧型手機連接的服務設定識別碼 (SSID) 和密碼。
重設網路設定	重新設定所有的網路設定。

(應用程式)

應用程式清單	顯示應用程式清單。您可以選取您想要使用的應用程式。
簡介	顯示有關使用應用程式的說明。

(播放)

刪除	刪除一個影像。
觀看模式	設定影像用於播放的分組方式。
影像索引	同時顯示多個影像。
顯示旋轉	設定記錄影像的播放方向。
循環播放	顯示循環播放。
轉動	旋轉影像。
 放大	放大播放影像。

4K 靜態影像播放	以 4K 解析度將靜態影像輸出到連接 HDMI 且支援 4K 的電視機。
保護	保護影像。
動態間隔調整	調整 [動態拍攝視訊] 中顯示對被攝體進行追蹤的間隔，在其中，對被攝體動作的追蹤會在播放動態影像時顯示。
指定列印	將列印命令標記新增至靜態影像。
美容效果	修飾一張靜態影像上某個人物的臉部並且將修飾的影像儲存為新的影像。

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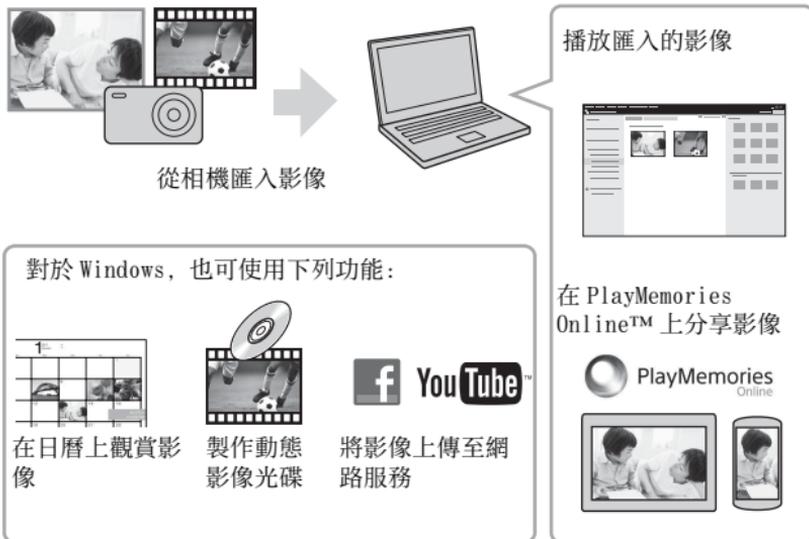
(設定)

螢幕亮度	設定螢幕亮度。
觀景窗亮度	設定電子觀景窗的亮度。
觀景窗色溫	設定觀景窗的色溫。
音量設定	設定動態影像播放的音量。
音頻訊號	設定相機的操作聲音。
上傳的設定	設定使用 Eye-Fi 卡時相機的上傳功能。
非重疊功能表	設定您每次按 MENU 按鈕時是否要顯示非重疊功能表。
模式轉盤指南	開啟或關閉模式轉盤指南（解釋各種拍攝模式）。
刪除確認	設定在刪除確認畫面中預選刪除或取消。
顯示品質	設定顯示品質。
省電開始時間	設定相機自動關機前的時間長度。
PAL/NTSC 選擇器 (僅針對 1080 50i 相容機型)	透過變更裝置的電視機格式，能夠以不同的動態影像格式拍攝。
示範模式	設定開啟或關閉動態影像的展示播放。
HDMI 設定	設定 HDMI 的設定。
USB 連線	設定 USB 連接法。

USB LUN 設定	透過限制 USB 連接功能提高相容性。在正常的狀況下，設定為 [多種]，只有在無法建立相機和電腦或 AV 組件之間的連線時，才設定為 [單一]。
USB 電源供給	設定是否用 USB 連接方式供電。
 語言	選擇語言。
日期 / 時間設定	設定日期與時間，以及日光節約時間。
區域設定	設定使用的地點。
格式化	格式化記憶卡。
檔案編號	設定用來對靜態影像和動態影像指定檔案編號的方法。
選擇 REC 資料夾	變更用於儲存影像的選定資料夾。
新資料夾	創建一個用於儲存靜態影像和動態影像 (MP4) 的新資料夾。
資料夾名稱	設定靜態影像資料夾的格式。
還原影像資料庫	還原影像資料庫檔案並使錄製與播放可以進行。
顯示媒體資訊	顯示記憶卡上動態影像的剩餘錄製時間和靜態影像的可拍攝張數。
版本	顯示相機軟體版本。
出廠重設	將設定還原為預設設定。

PlayMemories Home™ 的功能

PlayMemories Home 軟體讓您可以將靜態影像和動態影像匯入您的電腦並加以使用。需要 PlayMemories Home 才能將 XAVC S 動態影像和 AVCHD 動態影像匯入您的電腦。



附註

- 必須要有網際網路連線才能安裝 PlayMemories Home。
- 需要網際網路連線才能使用 PlayMemories Online 或其他網路服務。在某些國家或區域可能不提供 PlayMemories Online 或其他網路服務。
- 對於 Mac 應用程式請使用以下 URL：
<http://www.sony.co.jp/imsoft/Mac/>
- 如果您的電腦上已經安裝 2011 年以前販賣機型所隨附的 PMB (Picture Motion Browser) 軟體，PlayMemories Home 會在安裝期間加以覆寫。使用 PMB 的後續軟體 PlayMemories Home。

■ 系統要求

您可以在以下 URL 找到針對軟體的系統要求：

www.sony.net/pcenv/



■ 將 PlayMemories Home 安裝到電腦上

1 使用您電腦上的網際網路瀏覽器，前往以下 URL，然後安裝 PlayMemories Home。

www.sony.net/pm/

- 有關 PlayMemories Home 的詳細資訊，請參閱以下 PlayMemories Home 支援頁面（僅限英語）：
<http://www.sony.co.jp/pmh-se/>
- 當安裝完成時，PlayMemories Home 會開始。

2 使用微型 USB 電纜（附件）將相機連接到您的電腦。

- PlayMemories Home 中可能已安裝新的功能。即使您的電腦上已安裝 PlayMemories Home，也將相機連接到您的電腦。
-

附註

- 請勿在操作畫面或是存取畫面顯示時將微型 USB 電纜（附件）從相機拔出。如此做可能對資料造成損壞。
- 要將相機從電腦中斷連接，按一下工作列上的 ，然後按一下 [退出 PMHOME]。

Image Data Converter™ 的功能

底下是使用 Image Data Converter 時的可用功能範例。

- 您可以使用色調曲線或清晰度之類的各種校正功能編輯 RAW 影像。
- 您可以使用白平衡、亮度以及風格設定等調整影像。
- 您可以將顯示並編輯過的靜態影像儲存到您的電腦。
儲存 RAW 影像的方法有兩種：儲存並保留為 RAW 資料，或者以通用型檔案格式儲存。
- 您可以顯示並比較以本相機拍攝的 RAW 影像 / JPEG 影像。
- 您可以使用五種等級將影像分級。
- 您可以設定色彩標籤。

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■ 安裝 Image Data Converter

1 從下列 URL 下載軟體，並將其安裝在您的電腦上。

Windows:<http://www.sony.co.jp/imsoft/Win/>

Mac:<http://www.sony.co.jp/imsoft/Mac/>

■ 檢視 Image Data Converter 指南

有關如何使用 Image Data Converter 的詳細資訊，請參閱 Image Data Converter 指南。

1 Windows 系統：

點選 [開始] → [所有程式] → [Image Data Converter] → [說明] → [Image Data Converter Ver.4]。

Mac 系統：

開啟 Finder → [應用程式] → [Image Data Converter] → [Image Data Converter Ver.4] → 在選單列上選擇“說明” → Image Data Converter 指南。

- 若使用 Windows 8，開啟 Image Data Converter Ver.4 → 在選單條上選擇“說明” → Image Data Converter 指南。
- 有關 Image Data Converter 的詳細資訊，您也可以參閱相機的“說明指南”（第 2 頁）或下列 Image Data Converter 支援頁面（僅英文版）：

<http://www.sony.co.jp/ids-se/>

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將功能新增至相機

您可以經由網際網路透過連線至應用程式下載網站  (PlayMemories Camera Apps™) 將想要的功能新增到您的相機。

<http://www.sony.net/pmca/>

- 安裝一個應用程式後，您可以使用 [觸控 (NFC)] 功能，透過將具有 NFC 功能的 Android 智慧型手機碰觸相機上的 N 標記叫出應用程式。

靜態影像的張數以及動態影像的可錄製時間

靜態影像的張數以及可錄製時間可能依拍攝情況以及記憶卡而有所差異。

■ 靜態影像

[ 影像尺寸]：L：20M

當 [ 長寬比] 設定為 [3:2] * 時

影像品質 \ 容量	2 GB
標準	295 張影像
精細	170 張影像
超精細	125 張影像
RAW 與 JPEG	58 張影像
RAW	88 張影像

* 當 [ 長寬比] 設定為 [3:2] 以外時，您可以錄製比以上所示更多的照片。(當 [ 影像品質] 設定為 [RAW] 時除外。)

■ 動態影像

下表顯示的是，使用在本相機上格式化的記憶卡可以錄製的大約總時間。XAVC S 和 AVCHD 動態影像的錄製時間為 [雙重影像錄製] 設定為 [關] 時。

(h (小時)、m (分鐘))

錄製設定 \ 容量	2 GB
60p 50M/50p 50M	—
30p 50M/25p 50M	—
24p 50M*	—
120p 50M/100p 50M	—
60i 24M (FX) /50i 24M (FX)	10 m
60i 17M (FH) /50i 17M (FH)	10 m
60p 28M (PS) /50p 28M (PS)	9 m
24p 24M (FX) /25p 24M (FX)	10 m
24p 17M (FH) /25p 17M (FH)	10 m
1440 × 1080 12M	15 m
VGA 3M	1 h 10 m

* 僅針對 1080 60i 相容機型

- 可以連續拍攝大約 29 分鐘 (受限於產品規格)。MP4 (12M) 的最長連續錄製時間大約為 15 分鐘 (受限於 2GB 的檔案大小)。
- 動態影像可以記錄的時間會因相機配有可以根據拍攝場景而自動調整畫質 VBR (Variable Bit-Rate) 而有所不同。錄製快速移動的被攝體時，影像會比較清晰，但是可錄製時間會比較短，因為需要更多記憶體進行錄製。可錄製時間也會依拍攝情況、被攝體或者影像畫質 / 大小設定之不同而有所差異。

有關使用相機的注意事項

本相機內建的功能

- 本說明書描述 1080 60i 相容裝置以及 1080 50i 相容裝置。
如要檢查您的相機是否為 1080 60i 相容裝置或是 1080 50i 相容裝置，檢查相機底部是否有下列標記。
1080 60i 相容裝置: 60i
1080 50i 相容裝置: 50i
- 本相機與 1080 60p 或 50p 格式的動態影像相容。與到目前為止都是以隔行掃描法記錄的標準記錄模式不同的是，本相機是以逐行掃描法記錄。這樣可以增加解析度，提供更順暢、更真實的影像。以 1080 60p/1080 50p 格式錄製的動態影像僅可在支援 1080 60p/1080 50p 的裝置上播放。
- 搭乘飛機時，將 [飛行模式] 設定為 [開]。

使用與保養須知

避免粗暴處理、拆卸、改造或物理性撞擊本產品，或因捶打、掉落或踐踏而使產品受到衝擊。特別小心鏡頭。

有關錄製 / 播放的注意事項

- 在您開始錄製之前，先進行試錄以確認相機正常運作。
- 本相機不防塵、不防潑濺、也不防水。
- 請勿將相機朝向陽光或其他的強光。這可能造成相機故障。
- 如果發生濕氣凝結，要在使用相機之前將其清除。
- 請勿搖晃或撞擊本相機。這可能造成故障，使您無法錄製影像。此外，錄製媒體可能會變得無法使用或是影像資料可能受損。

請勿在下列地方使用 / 存放相機

- 在極度炎熱、寒冷或潮濕的地方
例如，在停在太陽底下的車廂中，相機機身可能變形而造成故障。
- 存放在直射的陽光下或加熱器附近
相機機身可能褪色或變形，而這可能會造成故障。
- 在會受到搖擺振動的地方
- 靠近會產生強烈無線電波、發出輻射或者強烈磁性的地方。否則相機可能無法正確地記錄或播放影像。
- 在多沙或多灰塵的地方
小心不要讓沙子或灰塵進入相機中。否則可能會造成相機故障，有時候這種故障是無法修理的。

攜帶時

- 不要在相機放置於褲子或裙子的後面口袋中時坐在椅子或其他地方，因為這樣可能會造成故障或者損害相機。

ZEISS 鏡頭

本相機配備有 ZEISS 鏡頭，能以優越的對比再生清晰的影像。本相機的鏡頭是根據德國 ZEISS 的品質標準，在經過 ZEISS 認證的品質保證系統底下生產的。

關於螢幕、電子觀景窗以及鏡頭的注意事項

- 螢幕和電子觀景窗是利用極高精確度的技術製造，所以 99.99% 以上的畫素都可以有效的使用。然而，螢幕和電子觀景窗上可能會出現一些細小的黑點和 / 或亮點（白色、紅色、藍色或綠色）。這些點是製造過程中的正常結果，不會影響錄製。
- 請勿以抓住螢幕或觀景窗的方式握持相機。
- 當鏡頭正在伸縮時，請注意不要使您的手指或其他東西被夾到。
- 將觀景窗往下壓時，注意勿讓手指擋住。
- 將目鏡往外拉時，請勿用力壓下觀景窗。
- 如果水、灰塵或沙黏附在觀景窗上，可能會造成故障。

關於使用觀景窗拍攝的注意事項

此相機裝有高解析度與高對比度的有機電激發光觀景窗。相機的設計是透過適當平衡各種元件以提供可輕鬆觀看的觀景窗。

- 在觀景窗的角落附近，影像可能會有輕微的扭曲。這並不是故障。當您想檢查整個構圖的每個細節時，您也可以使用螢幕。
- 若您在使用觀景窗時橫移相機或是視線偏移，觀景窗裡的影像可能會扭曲，或是顏色改變。這是鏡頭或顯示裝置的特性，並非故障。當您拍攝影像時，建議從觀景窗的中央觀看。

有關閃光燈的注意事項

- 請不要以抓住閃光燈的方式拿相機，或者是對閃光燈施加太大的力量。
- 如果水、灰塵或沙子進入打開的閃光燈，可能會造成故障。
- 將閃光燈壓下時，請注意不要壓到您的手指。

Sony 配件

僅使用原廠的 Sony 品牌配件，否則可能造成故障。Sony 品牌配件可能未在某些國家或區域上市。

相機溫度須知

您的相機和電池可能因為持續使用而變熱，但是這並不是故障。

過熱保護須知

視相機和電池溫度而定，您可能無法錄製動態影像或是電源可能會自動關閉以保護相機。

在電源關閉或是您可能不再錄製動態影像之前，螢幕上會顯示一個訊息。在這種情況下，使電源維持在關閉狀態並等候直到相機和電池溫度下降為止。如果您在未讓相機和電池足夠冷卻的情況下開啟電源，電源可能會再度關閉或是您可能無法錄製動態影像。

電池充電須知

- 如果您對一個很久未使用的電池充電，您可能無法將其充電至適當的容量。這是因為電池特性的緣故。再度對電池充電。
- 電池若超過一年以上沒有使用可能會劣化。

版權警告

電視節目、影片、錄影帶及其他資料可能具有版權。未經許可錄製這些資料可能會觸犯版權法的規定。

對於內容受損或是錄製失敗不提供補償

對於因相機或記錄媒體等的故障而造成的記錄失敗或記錄內容遺失或損毀，Sony 不能補償。

清潔相機表面

以稍微用水沾濕的軟布輕輕將相機表面擦乾淨，然後以乾布擦拭表面。若要防止對表面塗層或外殼造成損傷：

- 請勿讓相機接觸稀釋劑、揮發油、酒精、拋棄式清潔巾、驅蟲劑、防曬品或殺蟲劑等化學產品。

保養螢幕

- 留在螢幕上的護手霜或保濕霜可能會使塗層溶解。如果螢幕上留有任何物質，將其立即擦淨。
- 以面紙或其他材質用力擦拭可能會傷害塗層。
- 如果指印或碎屑附著在螢幕上，我們建議您輕輕將任何碎屑清除，然後用軟布將螢幕擦淨。

無線 LAN 須知

我們對於因未獲權的存取、未獲授權使用相機加載目的地，或者遺失與被竊而造成的損壞概不負責。

規格

相機

[系統]

影像裝置: 13.2 公釐 × 8.8 公釐
(1.0 型) Exmor R™ CMOS 感應器

相機的總像素數:
約 20.9 百萬像素

相機的有效像素數:
約 20.1 百萬像素

鏡頭: ZEISS Vario-Sonnar T*
2.9 × 變焦鏡頭
f = 8.8 公釐 - 25.7 公釐
(24 公釐 - 70 公釐 (等同於
35 公釐的底片機))

F1.8 (W) - F2.8 (T)

拍攝動態影像 (16:9) 時:

25.5 公釐 - 74 公釐^{*1}

拍攝動態影像 (4:3) 時:

31 公釐 - 90 公釐^{*1}

^{*1} 當 [**靜**] SteadyShot 設為
[標準] 時

SteadyShot: 光學

檔案格式:

靜態影像: 符合 JPEG (DCF,
Exif, MPF Baseline) 標準,
RAW (Sony ARW 2.3 Format),
DPOF 相容

動態影像 (XAVC S 格式):
符合 MPEG-4 AVC/H.264 XAVC S
ver.1.0 格式標準

視頻: MPEG-4 AVC/H.264

音頻: Linear PCM 2 聲道
(48 kHz 16 位元)

動態影像 (AVCHD 格式):
AVCHD 格式 Ver.2.0 相容

視頻: MPEG-4 AVC/H.264

音頻: Dolby Digital 2 聲道,
配備 Dolby Digital Stereo
Creator

• 由 Dolby Laboratories 授權製
造。

動態影像 (MP4 格式):

視頻: MPEG-4 AVC/H.264

音頻: MPEG-4 AAC-LC 2 聲道

記錄媒體: Memory Stick PRO Duo、
Memory Stick Micro、SD 卡、
microSD 記憶卡

閃光燈: 閃光範圍 (ISO 感光度
(建議的曝光指數) 設定為自
動):

約 0.4 公尺至 10.2 公尺 (W) /

約 0.4 公尺至 6.5 公尺 (T)

[輸入和輸出接頭]

HDMI 接頭: HDMI 微型插孔

Multi/Micro USB 端子 *: USB 通訊

USB 通訊: Hi-Speed USB (USB
2.0)

* 支援相容於微型 USB 的裝置。

[觀景窗]

類型: 電子觀景窗 (有機電激發
光)

總點數:

1 440 000 點

畫面覆蓋率: 100%

放大率:

約 0.59 × (相當於 35 公釐格
式) 附有可設定為無限遠的

50 公釐鏡頭, -1 公尺⁻¹

眼點: 距目鏡約 20 公釐, 具目鏡框
約 19.2 公釐, -1 公尺⁻¹

* 屈光度調整:

-4.0 公尺⁻¹ 至 +3.0 公尺⁻¹

CT

[螢幕]

LCD 螢幕:

7.5 公分 (3.0 型) TFT 驅動

總點數:

1 228 800 點

[電源, 一般]

電源: 充電電池 NP-BX1, 3.6V

電源供應器 AC-UB10C/UB10D,
5 V

電池消耗量:

約 1.7 W (以螢幕拍攝期間)

約 2.3 W (以觀景窗拍攝期間)

操作溫度: 0 °C 至 40 °C

存放溫度: -20 °C 至 +60 °C

尺寸 (符合 CIPA 標準):

101.6 公釐 × 58.1 公釐 ×

41.0 公釐 (長 / 寬 / 高)

質量 (符合 CIPA 標準) (概略
值):

290 公克 (包括 NP-BX1 電池,
Memory Stick PRO Duo)

麥克風: 立體聲

揚聲器: 單聲

Exif Print: 相容

PRINT Image Matching III: 相容

[無線 LAN]

支援標準: IEEE 802.11 b/g/n

頻率: 2.4 GHz

支援的安全性通訊協定: WEP/WPA-
PSK/WPA2-PSK

配置方法: WPS (Wi-Fi Protected
Setup) / 手動

存取方法: 基礎建設模式

NFC: 符合 NFC Forum Type 3 Tag 標
準

型號 WW808161

電源供應器 AC-UB10C/UB10D

電源要求: AC 100 V 至 240 V,
50 Hz/60 Hz, 70 mA

輸出電壓: DC 5 V, 0.5 A

充電電池 NP-BX1

電池類型: 鋰離子電池

最大電壓: DC 4.2 V

額定電壓: DC 3.6 V

最大充電電壓: DC 4.2 V

最大充電電流: 1.89 A

容量: 典型 4.5 Wh (1 240 mAh)

設計及規格如有變更, 恕不另行通知。

商標

- Memory Stick 和  是 Sony Corporation 的商標或註冊商標。
- XAVC S 和  為 Sony Corporation 的註冊商標。
- “AVCHD Progressive” 與 “AVCHD Progressive” 標誌是 Panasonic Corporation 與 Sony Corporation 的商標。
- Dolby 和雙 D 符號是 Dolby Laboratories 的商標。
- HDMI 和 HDMI High-Definition Multimedia Interface 等詞以及 HDMI 標誌是 HDMI Licensing LLC 在美國和其他國家的商標或註冊商標。
- Windows 為 Microsoft Corporation 在美國和 / 或其他國家的註冊商標。
- Mac 為 Apple Inc. 在美國和其他國家的註冊商標。
- iOS 為 Cisco Systems, Inc. 的商標或註冊商標。
- iPhone 和 iPad 為 Apple Inc. 在美國和其他國家的註冊商標。
- SDXC 標誌是 SD-3C, LLC 的商標。
- Android 和 Google Play 為 Google Inc. 的商標。
- Wi-Fi、Wi-Fi 標誌和 Wi-Fi PROTECTED SET-UP 為 Wi-Fi Alliance 的註冊商標。
- N 標記是 NFC Forum, Inc. 在美國和其他國家的商標或註冊商標。
- DLNA 和 DLNA CERTIFIED 為 Digital Living Network Alliance 的商標。
- Facebook 與 “f” 標誌是 Facebook, Inc. 的商標或註冊商標。
- YouTube 與 “YouTube” 標誌是 Google Inc. 的商標或註冊商標。
- Eye-Fi 是 Eye-Fi, Inc. 的商標。

- 此外，在本使用說明書中所使用的系統和產品的名稱通常是其各自的開發商或製造商的商標或註冊商標。然而在本說明書中可能並非所有情況皆使用 ™ 或 ® 標記。



在我們的客戶支援網站可以查到本產品新增的資訊和常見問題的答案。

<http://www.sony.net/>



<http://www.sony.net/SonyInfo/Support/>

